Operator's Manual

McELROY

www.mcelroy.com

Fusion Joint DataLogger®

DataLogger®

Original Language: English
Manual: DL6501 Revision: Rev E 11/06

Introduction

Thank You for purchasing this McElroy product.

DataLogger
McELROY

McElroy's third generation DataLogger® system incorporates several new technologies, including the widely available Windows Mobile based Pocket PC and low power Bluetooth® wireless technology. This combination offers the convenience of battery-powered devices without the clutter and breakage-prone problem of wired systems.

The McElroy DataLogger® system consists of a data logging device (called the DataLogger®), a Pocket PC, and optional accessories. The DataLogger® logs and store report for one joint, and then transmit the joint report to the Pocket PC.

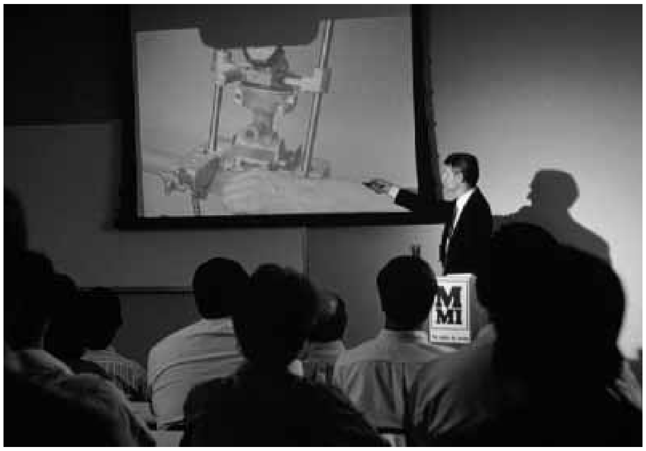
In addition to providing a user interface, the Pocket PC is capable of storing hundreds of reports limited only by its memory capacity. For example, a Pocket PC with 20MB of user accessible memory can store up to 10,000 reports that are 2Kbytes in length. (Note: although the Pocket PC has the capacity, you are strongly advised to backup your report data to a Desktop PC or secondary storage device).

Alternatively, a Bluetooth® enabled desktop or notebook computer running Windows XP operating system can be used in place of the Pocket PC as a user interface and report storage device.

NOTICE: Please take every precaution to safeguard your joint reports. If joint reports are critical to your job, please make backups often and print out every joint report at the completion of each joint using the optional printer. McElroy cannot guarantee the safety and integrity of joint reports beyond the specification of component manufacturers and the handling of equipment in the field.

TX02507-6-20-05

World Class Training



PH00917-8-15-96

This manual is intended as a guide only and does not take the place of proper training by qualified instructors.

The information in this manual is not all inclusive and can not encompass all possible situations that can be encountered during various operations.

McElroy Manufacturing, Inc., offers advanced training classes to enhance efficiency, productivity, safety and quality. Training is available at our facility or on-site at your location. Call (918) 836-8611

TX01333-4-23-97

Warranty

LIMITED WARRANTY

McElroy Manufacturing, Inc. (McElroy) warrants all products manufactured, sold and repaired by it to be free from defects in materials and workmanship, its obligation under this warranty being limited to repairing or replacing at its factory and new products, within **3 years** after shipment, with the exception of purchased items (such as electronic devices, pumps, switches, etc.), in which case that manufacturer's warranty applies. Warranty applies when returned freight is prepaid and which, upon examination, shall disclose to have been defective. This warranty does not apply to any product or component which has been repaired or altered by anyone other than McElroy or has become damaged due to misuse, negligence or casualty, or has not been operated or maintained according to McElroy's printed instructions and warnings. This warranty is expressly in lieu of all other warranties expressed or implied. The remedies of the Buyer are the exclusive and sole remedies available and Buyer shall not be entitled to receive any incidental or consequential damages. Buyer waives the benefit of any rule that disclaimer of warranty shall be construed against McElroy and agrees that such disclaimers herein shall be construed liberally in favor of McElroy.

RETURN OF GOODS

Buyer agrees not to return goods for any reason except upon the written consent of McElroy obtained in advance of such return, which consent, if given, shall specify the terms and conditions and charges upon which any such return may be made. Materials returned to McElroy, for warranty work, repair, etc., **must have a Return Material Authorization (RMA) number**, and be so noted on the package at time of shipment. For assistance, inquiry shall be directed to:

McElroy Manufacturing, Inc.
P.O. Box 580550
833 North Fulton Street Tulsa, Oklahoma 74158-0550

PHONE: (918) 836–8611, FAX: (918) 831–9285.
EMAIL: fusion@McElroy.com

Note: Certain repairs, warranty work, and inquiries may be directed, at McElroy's discretion, to an authorized service center or distributor.

DISCLAIMER OF LIABILITY

McElroy accepts no responsibility of liability for fusion joints. Operation and maintenance of the product is the responsibility of others. We recommend qualified joining procedures be followed when using McElroy fusion equipment.

McElroy makes no other warranty of any kind whatever, express or implied; and all implied warranties of merchantability and fitness for a particular purpose which exceed the aforestated obligation are hereby disclaimed by McElroy.

PRODUCT IMPROVEMENT

McElroy reserves the right to make any changes in or improvements on its products without incurring any liability or obligation to update or change previously sold machines and/or the accessories thereto.

INFORMATION DISCLOSED

No information of knowledge heretofore or hereafter disclosed to McElroy in the performance of or in connection with the terms hereof, shall be deemed to be confidential or proprietary, unless otherwise expressly agreed to in writing by McElroy and any such information or knowledge shall be free from restrictions, other than a claim for patent infringement, is part of the consideration hereof.

PROPRIETARY RIGHTS

All proprietary rights pertaining to the equipment or the components of the equipment to be delivered by McElroy hereunder, and all patent rights therein, arising prior to, or in the course of, or as a result of the design or fabrication of the said product, are exclusively the property of McElroy.

LAW APPLICABLE

All sales shall be governed by the Uniform Commercial Code of Oklahoma, U.S.A.

Register your product online to activate your warranty: www.McElroy.com/fusion

(Copy information listed on the machine nameplate here for your records).

Model No. ________________________________

Serial No. ________________________________

Date Received ____________________________

Distributor _______________________________

Table of Contents

Equipment Safety

Safety Alerts 1-1
Read and Understand 1-1
General Safety 1-2
Wear Safety Equipment 1-2
Equipment is Not Explosion Proof 1-2
Units With Hydraulics. 1-3
Fusion Machine Procedures. 1-3
Heater is Hot. 1-3

Overview

The Datalogger®. 2-1
Multifunction Switch 2-1
LED Indicators 2-1
Batteries 2-2
Pressure Transducer 2-2
Temperature Transducer 2-2
Pocket PC (DL3-PPC). 2-3

Installation

Connecting To A Fusion Machine 3-1

Setting Time and Date

Setting Time and Date 4-1

Operation

Turn on Pocket PC Bluetooth® Radio 5-1
Starting the McElroy DL3-PPC Program. 5-2
The Log/Status Dialog Box 5-3
Setting up to Log a Joint 5-5
Logging the Fusion Process 5-10
Printing Reports (Optional) 5-13
Sample Joint Report Graphs 5-14
Transferring Joint Reports to PC 5-15
DX3-XP: Viewing and Printing Reports on the Desktop PC. 5-16
DX3-XP Menu 5-17

Restoring Pocket PC Programs and Settings

Restoring Pocket PC Programs and Settings for iPAQ rx3115 6-1

COPYRIGHT© 2006

McELROY MANUFACTURING, INC.
Tulsa, Oklahoma, USA

All rights reserved

All product names or trademarks are property of their respective owners. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

Table of Contents

Set-up Pocket PC

Procedure for Setting up a new Pocket PC 7-1

Set-up for Recon X

Setup Instructions for DL3 Recon X 8-1
Getting the Setup Image File from the Internet 8-1
Set Recon X Date and Time 8-3
Transferring the Image File onto the Recon X (factory setting) 8-4
Setting up the Bluetooth Radio 8-8
Installing Printer Port (optional) 8-12
Software Updates 8-16

Set-up for Rugged Pocket PC (TDS Recon)

Special Instruction for Rugged Pocket PC (TDS Recon) 8-1

Maintenance

Usage and Care 9-1
No Maintenance 9-2
Calibration 9-2

Specification

McElroy Datalogger® 10-1

Equipment Safety

Safety Alerts

This hazard alert sign ⚠ appears in this manual.
When you see this sign, carefully read what it says.
YOUR SAFETY IS AT STAKE.

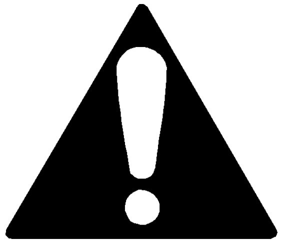
You will see the hazard alert sign with these words:
DANGER, WARNING, and CAUTION.

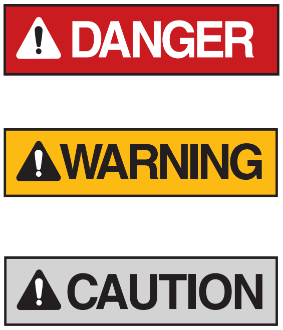
⚠ DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

In this manual you should look for two other words:
NOTICE and **IMPORTANT**.

NOTICE: can keep you from doing something that might damage the machine or someone's property. It may also be used to alert against unsafe practices.

IMPORTANT: can help you do a better job or make your job easier in some way.





WR00051-11-30-92

TX00030-12-1-92

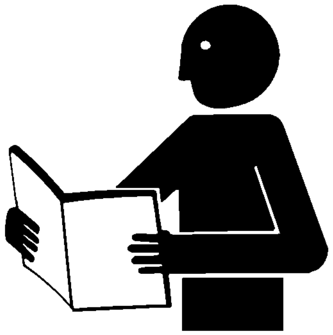
Read and Understand

Do not operate this equipment until you have carefully read, and understand the "Safety" and "Operation" sections of this manual, and all other equipment manuals that will be used with it.

Your safety and the safety of others depends upon care and judgment in the operation of this equipment.

Follow all applicable federal, state, local, and industry specific regulations.

McElroy Manufacturing, Inc. can not anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and on the machine are therefore not all inclusive. You must satisfy yourself that a procedure, tool, work method, or operating technique is safe for you and others. You should also ensure that the machine will not be damaged or made unsafe by the method of operation or maintenance you choose.



WR00052-12-1-92

TX00031-12-8-92

Equipment Safety

General Safety

THINK
Safety
1ST

SAFE1ST-12-22-92

Safety is important. Report anything unusual that you notice during set up or operation.

LISTEN for thumps, bumps, rattles, squeals, air leaks, or unusual sounds.

SMELL odors like burning insulation, hot metal, burning rubber, hot oil, or natural gas.

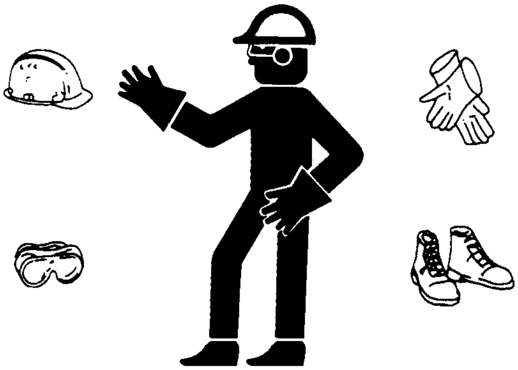
FEEL any changes in the way the equipment operates.

SEE problems with wiring and cables, hydraulic connections, or other equipment.

REPORT anything you see, feel, smell, or hear that is different from what you expect, or that you think may be unsafe.

TX00114-4-22-93

Wear Safety Equipment



WR00053-12-2-92

Wear a hard hat, safety shoes, safety glasses, and other applicable personal protective equipment.

Remove jewelry and rings, and do not wear loose-fitting clothing or long hair that could catch on controls or moving machinery.

TX00032-4-7-93

Equipment is Not Explosion Proof

WR00034-11-30-92

⚠WARNING DataLogger® equipment is not explosion proof. Operation of equipment in a hazardous environment may result in explosion and death.

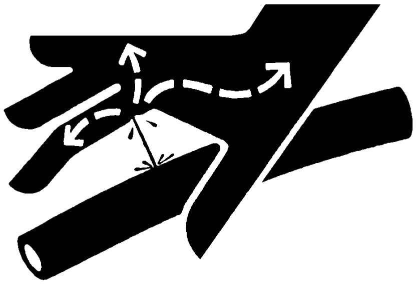
Do not operate this equipment in a hazardous environment.

TX01395-6-12-97

Equipment Safety

Units With Hydraulics

Although the hydraulic pressures in this machine are low compared to some hydraulically operated equipment, it is important to remember that a sudden hydraulic oil leak can cause serious injury, or even be fatal if the pressure is high enough.



WR00078-4-8-93

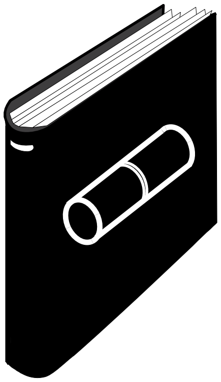
⚠WARNING Escaping fluid under pressure can penetrate the skin causing serious injury. Keep hands and body away from pinholes which eject fluid under pressure. Use a piece of cardboard or paper to search for leaks. If any fluid is injected into the skin, it must be immediately removed by a doctor familiar with this type of injury.

NOTICE: Wear safety glasses, and keep face clear of area when bleeding air from hydraulic system to avoid spraying oil into eyes.

TX00110-8-23-95

Fusion Machine Procedures

Familiarize yourself with the fusion machine you will be working with by reading the Manufacturer's manuals for the machine. Read the Safety Information to avoid potentially dangerous situations.



WR00079-2-7-96

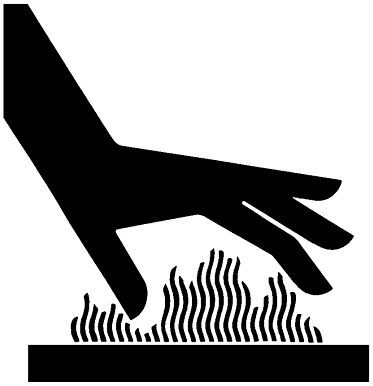
⚠WARNING Follow the pipe manufacturer's procedures for fusing the pipe being used.

Failure to adhere to proper machine and fusion procedures can result in injury and bad fusion joints.

TX01396-6-12-97

Heater Is Hot

⚠CAUTION The heater is hot and will burn clothing and skin. Keep the heater in its insulated heater stand or blanket when not in use, and use care when heating the pipe.



WR00030-2-10-93

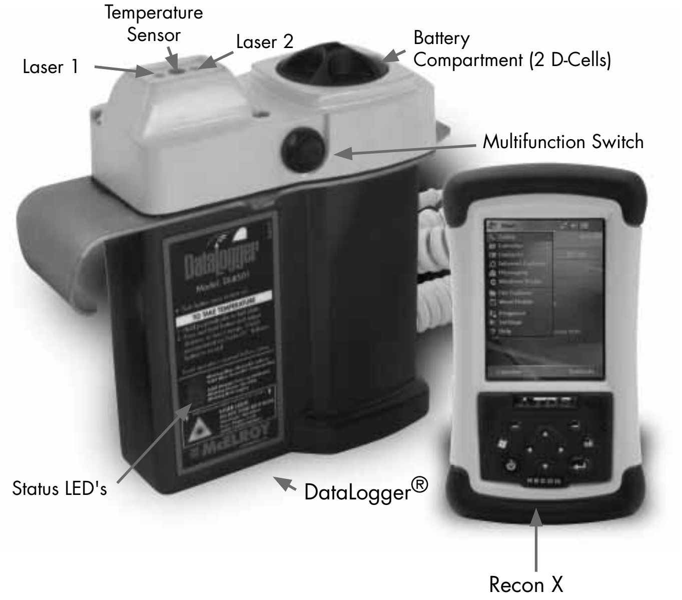
NOTICE: Use only a clean non-synthetic cloth such as a cotton cloth to clean the heater plates.

TX00104-8-12-94

Overview

The DataLogger®

The DataLogger® is a self-contained unit with its own processing power and sensor electronics. While the DataLogger® communicates with the operator via a Pocket PC, it also has two LED's to provide status and a multifunction switch.



TX02508-6-20-05

Multifunction Switch

1) Turns on the DataLogger® if it is off (both LED's off). Once turned on, the DataLogger® will remain on for 2 minutes if there is no communication activity. Otherwise, the DataLogger® will stay on as long as there is communication between it and a PC. Every time this switch is pressed, it adds another 2 minutes to the on time.
2) Takes temperature reading if the DataLogger® is on but not in data logging mode. For as long as this switch is held, the temperature will be displayed on the Pocket PC screen.
3) Stops logging if the DataLogger® is in data logging mode. This switch must be held for longer than 3 seconds to turn off logging.

Note: the DataLogger® turns itself off, therefore, it does not have an OFF switch.

TX02509-6-20-05

LED Indicators

Blue LED (Bluetooth® Status):

1) When power to the DataLogger® is turned on, the Blue LED begins to flash periodically, indicating that the Bluetooth® module is on, and is ready to communicate with a Pocket PC.
2) When the Bluetooth® module establishes connection with a Pocket PC and are exchanging data, the Blue LED stays solid.

Tri-color LED:

1) Amber: when the DataLogger® is first turned on, this LED stays amber for less than 2 seconds, indicating that the DataLogger® is in power-up initialization state.
2) Flashing Green: indicates the DataLogger® is in normal operating mode.
3) Flashing Red: indicates the DataLogger® is in data logging mode.

TX02510-6-20-05

Batteries

PH03053-6-24-05

The DataLogger® runs on two (2) readily available alkaline D-size batteries. When the low battery indicator on the Pocket PC screen appears, the DataLogger® has less than 2 hours of run time left. The batteries must be replaced as soon as possible when not logging a joint.

The DataLogger® stores joint report in non-volatile memory so that the report will be intact even when batteries are removed for replacement. However, it is not advisable to remove the batteries during data logging. This will cause the logging to be interrupted and the joint report will not be complete. **Replace the batteries only when not logging data.**

TX02511-6-20-05

Pressure Transducer

PH03052-6-24-05

The pressure transducer is connected to the DataLogger® via a cable. The cable can be replaced easily by unscrewing from both ends. The pressure transducer taps into the hydraulic system of a fusion machine via a quick-disconnect. Pressure reading is displayed on the Pocket PC screen as long as the Pocket PC is turned on and communicating with the DataLogger®.

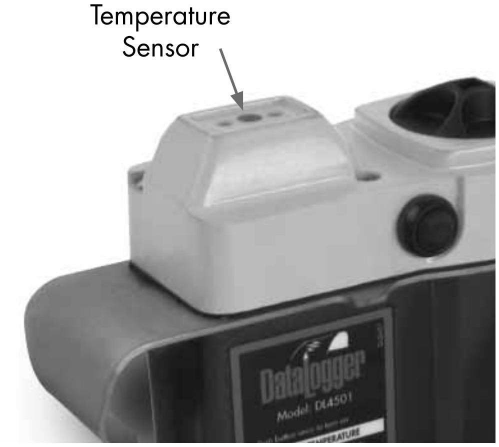
NOTICE: Do not store pressure probe with adapter fitting(s) attached. Stored pressure can damage the transducer.

TX02512-6-20-05

Temperature Transducer

The temperature transducer is built in to the DataLogger®. By holding down the DataLogger® button, temperature is displayed on the Pocket PC screen. At the "Heater Temperature" screen, holding the button updates the display, and releasing the button logs the temperature as the current heater temperature.

To take temperature measurement, hold the top of the DataLogger® perpendicular to the heater surface. Press and hold the switch and aim the laser beams at the heater surface. When the two laser beams converge, the proper measurement distance is attained. Hold the switch until the temperature stabilize, and release the switch to lock in the reading.



dataloggerV3

TX02513-6-20-05

Pocket PC (DL3-PPC)

PH03054-6-24-05

HP iPAQ

The software program **McElroy DL3-PPC** runs on the Pocket PC to provide user interface and joint report storage. For redundancy, a Secure Digital card (SD card) is included with every Pocket PC to backup joint reports. At the end of the day or the end of a job, the SD card can be removed from the Pocket PC and data copied to a desktop PC for further archive and processing.

Each Pocket PC is setup at the factory and ready to log data. If a new Pocket PC is acquired, please see the Procedure for **Set-up Pocket PC** section.

Note:

1) Like a desktop or notebook PC, the Pocket PC may occasionally lock up and needs a reset. Please refer to the Pocket PC's user manual to locate the Reset button. Push the stylus into the Reset buttonhole for a soft reset of the Pocket PC.

2) Like a cell phone, the Pocket PC needs to be on the charger even when not in use so that its built-in program memory content can be retained. This is to prevent having to reinstall and re-setup the Pocket PC, although joint reports and installation programs are backed up in nonvolatile Secure Digital (SD) card.

PH03054-6-24-05

Recon

3) In the forth quarter of 2005, the TDS Recon Rugged Pocket PC was introduced to handle harsh environment applications. This Pocket PC has more built-in Flash memory for backing up reports, programs, and settings. In the event of power loss, the TDS Recon automatically restores the previously saved program and settings after confirming with the user.

PH03054-6-24-05

Recon X

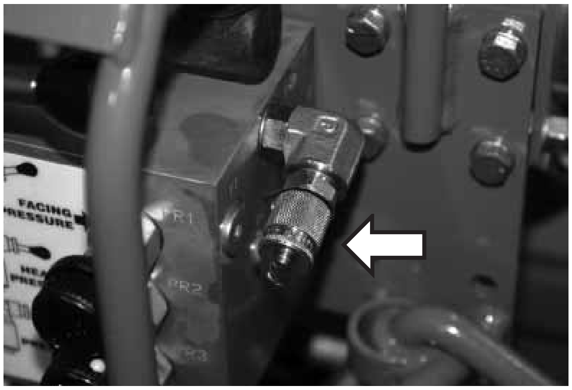
4) In the beginning of year 2006, new HP iPAQ's were introduced. They run Windows Mobile 5.0 operating system with persistent memory, which retains all program and data in the event of a power loss, avoiding the need to reinstall programs and settings as in the case of the rx3115 that runs Pocket PC 2003.

5) In the forth quarter of 2006, the Recon X was introduced.

TX02514-10-31-06

Connecting To A Fusion Machine

NOTICE: The fusion machine must have a hydraulic quick disconnect for connecting the DataLogger® pressure transducer. If the machine does not have one, contact your distributor for the proper adapter or retrofit kit.



PH03026-4-13-05

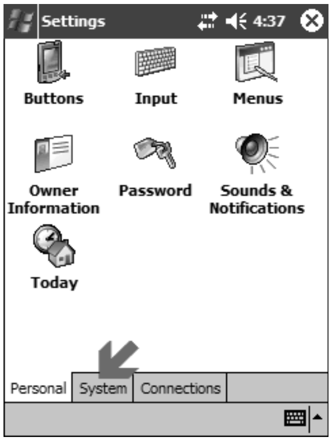
TX02515-6-20-05

Setting Time and Date

It is very important to set the correct time and date because joint reports are time stamped using the Pocket PC's clock.

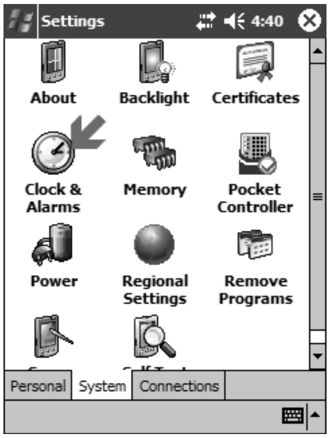
1. Tap **Start > Settings**

2. Tap the **System** tab


Settings
4:37
Buttons
Input
Menus
Owner Information
Password
Sounds & Notifications
Today
Personal
System
Connections

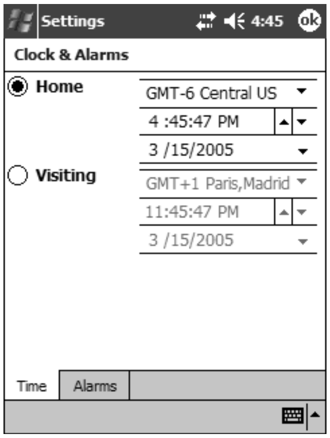
PH03011-4-12-05

3. Tap **Clock & Alarms**


Settings
4:40
About
Backlight
Certificates
Clock & Alarms
Memory
Pocket Controller
Power
Regional Settings
Remove Programs
Personal
System
Connections

PH03012-4-12-05

4. Select the respective time and date field by tapping on it and adjust the values accordingly. For example to change the hour field, tap on it and then use the up and down arrow keys to adjust the number up or down.


Settings
4:45
ok
Time
Alarms

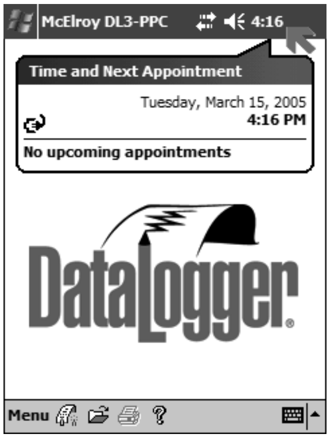
Clock & Alarms

● Home
GMT-6 Central US
4 :45:47 PM
3 /15/2005

○ Visiting
GMT+1 Paris,Madrid
11:45:47 PM
3 /15/2005

PH03013-4-12-05

Note: it is important to check the clock often to make sure the time and date are set correctly by tapping the time displayed at the top right hand corner. The **Time and Next Appointment** dialog will show the current date and time. Check to make sure it is set correctly. If not, follow the instructions above and the user manual to set the correct date and time.


McElroy DL3-PPC
4:16
DataLogger
Menu

Time and Next Appointment

Tuesday, March 15, 2005
4:16 PM

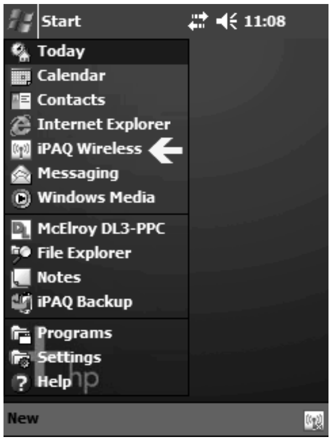
No upcoming appointments

PH03014-4-12-05

Turn on Pocket PC Bluetooth® Radio

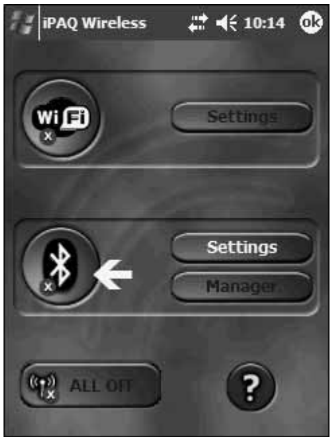
Make sure the Bluetooth® radio is turned on. Indicators are available to show the status of the Bluetooth® radio if it is turned on. On an HP iPAQ rx3115 Pocket PC, the Blue LED on the top left corner is lit and the wireless icon at the lower right corner of the screen appears without a red X.

To turn on Bluetooth® radio on the HP iPAQ rx3115, tap Start > iPAQ Wireless.


Start
11:08
Today
Calendar
Contacts
Internet Explorer
iPAQ Wireless
Messaging
Windows Media
McElroy DL3-PPC
File Explorer
Notes
iPAQ Backup
Programs
Settings
Help
New

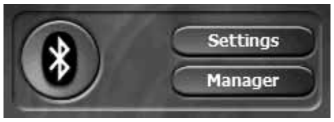
PH02923-3-11-05

Tap on the Bluetooth® to turn it on:


iPAQ Wireless
10:14
ok
Wi Fi
Settings
Settings
Manager
ALL OFF
?

PH02911-3-11-05

The Bluetooth® icon turns green and the X is removed to indicate the radio is on:


Settings
Manager

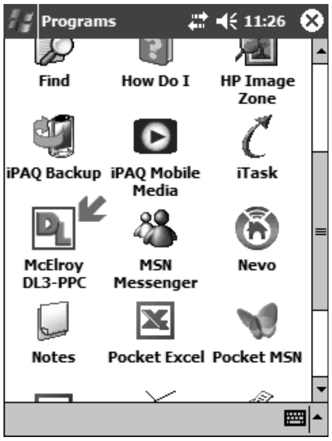
PH02922-3-11-05

Tap the OK button at the top right corner to exit iPAQ Wireless setup.

Note: This step only shows how to turn on the Bluetooth® in case it was turned off. For Bluetooth® setup, please refer to the **Procedure for Setting up a new Pocket PC** section for Bluetooth® port configuration.

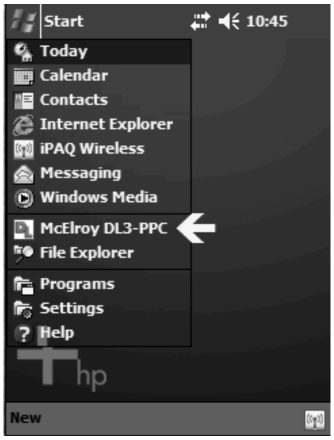
Starting the McElroy DL3-PPC Program

To start the program for the first time, tap **Start > Programs** to reveal the program folder, and then scroll down to find the McElroy DL3-PPC program:


Programs
11:26
Find
How Do I
HP Image Zone
iPAQ Backup
iPAQ Mobile Media
iTask
McElroy DL3-PPC
MSN Messenger
Nevo
Notes
Pocket Excel
Pocket MSN

PH02924-3-11-05

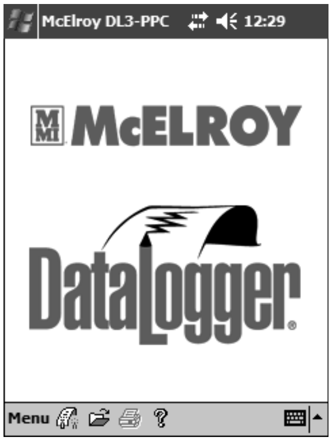
Subsequently, the program can be accessed in the Start Menu by tapping **Start > McElroy DL3-PPC:**


Start
10:45
Today
Calendar
Contacts
Internet Explorer
iPAQ Wireless
Messaging
Windows Media
McElroy DL3-PPC
File Explorer
Programs
Settings
Help
hp
New

PH02917-3-11-05

Program Menu and Icons

The McElroy DL3-PPC program starts by displaying the DataLogger® logo screen.


McElroy DL3-PPC
12:29
McELROY
DataLogger®
Menu

PH02925-3-11-05

Tap **Menu** to reveal the menu items:

Log/Status: opens the dialog for communicating with the DataLogger®, setting up joint information for logging a fusion process, and monitoring status.

Open...: opens a joint report of a previously logged joint and display it on the screen for viewing and printing.

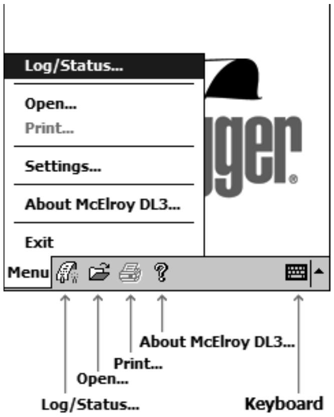
Print...: print the currently displayed joint report. Optional printer required for this feature.

About McElroy DL3...: Displays program copyright and version information.

Exit: Close and exit DL3-PPC Program. Always exit programs before inserting and removing SD card.

Keyboard: reveals/hides the on screen keyboard used for data entry.

TX02518-6-20-05

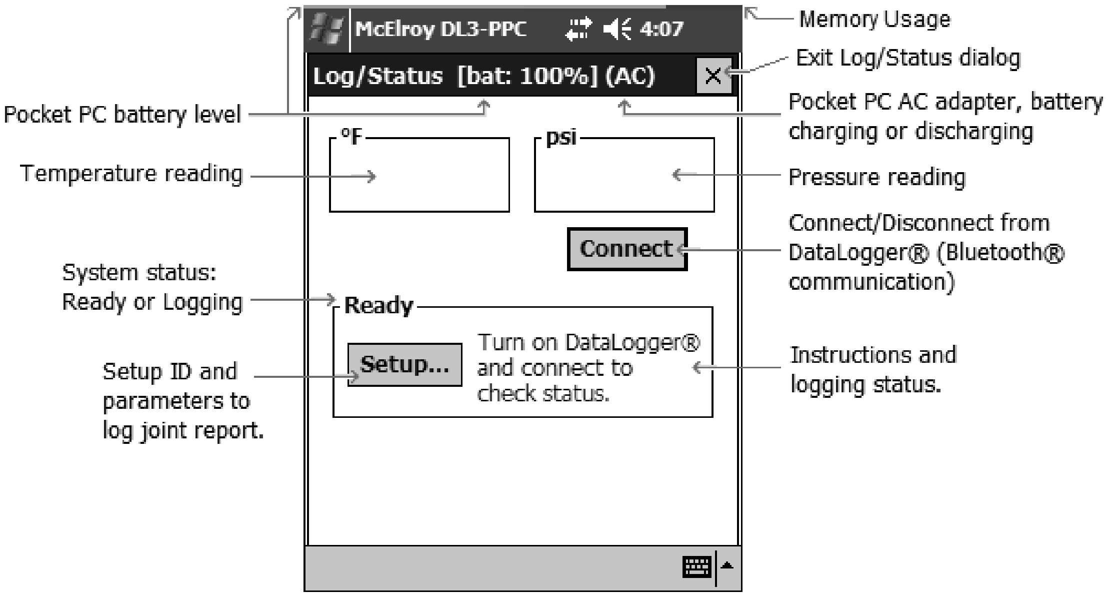

Log/Status...
Open...
Print...
Settings...
About McElroy DL3...
Exit
Menu
About McElroy DL3...
Print...
Open...
Log/Status...
Keyboard

PH02924-3-11-05

The Log/Status Dialog Box

Tap the **Log/Status...** icon or menu item to open the Log/Status dialog box. This dialog box provides status information including Pocket PC battery level, DataLogger® battery status, pressure transducer and temperature readings, and logging status.

Turn on the DataLogger® by pressing and releasing the switch on the unit once. (Note: the DataLogger® will turn off automatically when not active for over 2 minutes. Inactivity means not communicating with the Pocket PC and not logging)

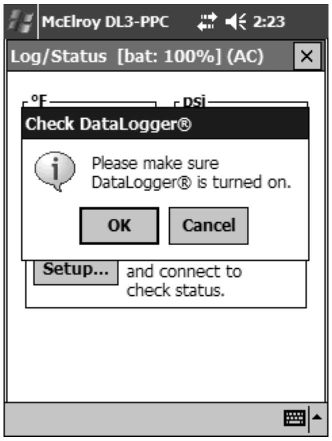

McElroy DL3-PPC
4:07
Log/Status [bat: 100%] (AC)
°F
psi
Connect
Ready
Setup...
Memory Usage
Exit Log/Status dialog
Pocket PC battery level
Pocket PC AC adapter, battery charging or discharging
Temperature reading
Pressure reading
Connect/Disconnect from DataLogger® (Bluetooth® communication)
System status: Ready or Logging
Setup ID and parameters to log joint report.
Instructions and logging status.
PH02928-3-14-05

Turn on DataLogger® and connect to check status.

Tap the **Connect** button to initiate connection with the DataLogger®. A message box appears as a reminder to turn on the DataLogger® before continuing:

The Log/Status Dialog Box (cont'd)

After making sure the DataLogger® is turned on (by pressing and releasing the switch), tap OK to connect. The Bluetooth Console appears, and the Bluetooth® icon on the top right corner begins to spin, indicating that Pocket PC is searching for a Bluetooth® device. Wait for the Bluetooth® icon to disappear, which indicates all nearby Bluetooth® devices are found. Look for a device icon whose name starts with “MDL3”. Compare that name with the name written on the DataLogger® label. If it matches, tap the corresponding icon to connect to that device.


McElroy DL3-PPC 2:23

Log/Status [bat: 100%] (AC)

Check DataLogger®

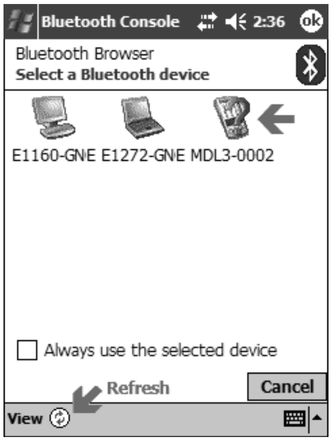
Please make sure DataLogger® is turned on.

and connect to check status.

PH02929-3-14-05

If the DataLogger® you are trying to connect is not on the list, press and release the switch on the DataLogger® to make sure it is turned on. Then tap the “refresh icon” on the Bluetooth® Console to scan again.

Once connected, the dialog box starts displaying pressure reading and the DataLogger® name and firmware version number, and the **Connect** button changes to **Disconnect:**


Bluetooth Console 2:36

Bluetooth Browser

Select a Bluetooth device

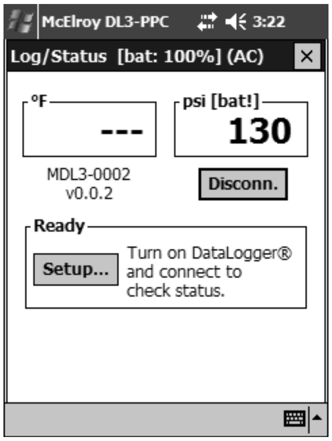
E1160-GNE E1272-GNE MDL3-0002

☐ Always use the selected device

PH02930-3-14-05

Temperature reading is only updated when the DataLogger® switch is held down. Otherwise, it displays - - -. If there is an error due to hardware failure or out-of-range readings, the temperature field displays **ERR**.

Pressure reading is updated constantly as long as the DataLogger® is connected. If there is an error due to hardware failure or out-of-range readings, the pressure field displays **ERR**.


McElroy DL3-PPC 3:22

Log/Status [bat: 100%] (AC)

°F: ---

psi [bat!]: 130

MDL3-0002
v0.0.2

Ready

Turn on DataLogger® and connect to check status.

PH02931-3-14-05

If the D-size batteries in the DataLogger® are low, the **[BAT!]** indicator is displayed next to the pressure unit (psi in this example). It is best to change batteries at your earliest convenience.

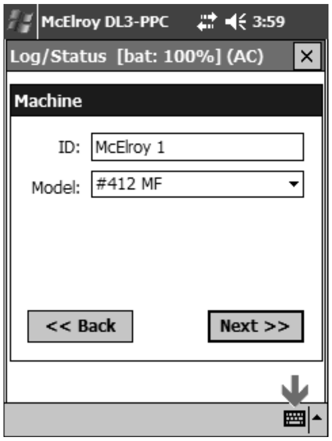
To disconnect from the DataLogger®, tap **Disconnect**. You may turn off the Pocket PC to conserve power. The DataLogger® will automatically turn off after 2 minutes of inactivity.

NOTICE: Please do not turn off the Pocket PC while it is connected to the DataLogger®. It may cause the Pocket PC to lock up. In that case, simply reset the Pocket PC by pushing the style into the reset hole.

Setting up to Log a Joint

Operator and Joint information can be entered with or without a connection to the DataLogger®. In the **Log/Status** dialog box, tap **Setup…** to begin entering information for the next joint. A series of dialog boxes will prompt you to enter the information one step at a time, beginning with the **Machine** dialog box:

To enter new text or edit the Machine ID text field, tap the keyboard icon at the lower right corner to bring up the on screen keyboard:

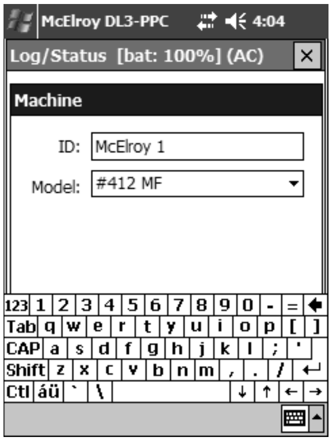

McElroy DL3-PPC 3:59
Log/Status [bat: 100%] (AC)
Machine
<< Back
Next >>

ID: McElroy 1

Model: #412 MF

PH02932-3-14-05

Tap in the field where new text is to be entered or change, and tap in new text using the on screen keyboard. The machine ID is a 20-character field that accepts alphabets and numeric characters. When done, tap the keyboard icon to remove the on screen keyboard.

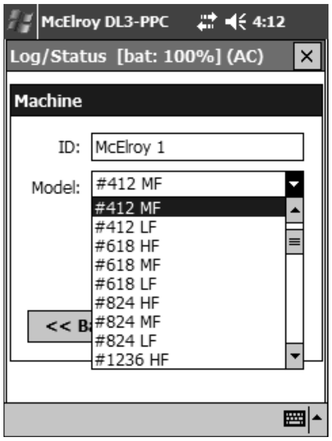

McElroy DL3-PPC 4:04
Log/Status [bat: 100%] (AC)
Machine
123 1 2 3 4 5 6 7 8 9 0 - =
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . /
Ctl áü ` \

ID: McElroy 1

Model: #412 MF

PH02933-3-14-05

To select a new machine model, tap the down arrow icon and scroll to select a machine from the list:


McElroy DL3-PPC 4:12
Log/Status [bat: 100%] (AC)
Machine
#412 MF
#412 LF
#618 HF
#618 MF
#618 LF
#824 HF
#824 MF
#824 LF
#1236 HF
<< B

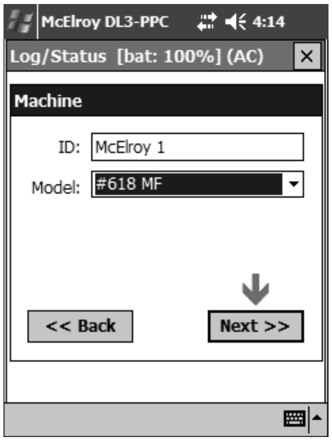
ID: McElroy 1

Model: #412 MF

PH02934-3-14-05

Setting up to Log a Joint (cont'd)

Tap **Next >>** to save changes and move on. (To discard the changes, tap **<< Back** and go back to the **Log/Status** dialog box.)


McElroy DL3-PPC 4:14

Log/Status [bat: 100%] (AC)

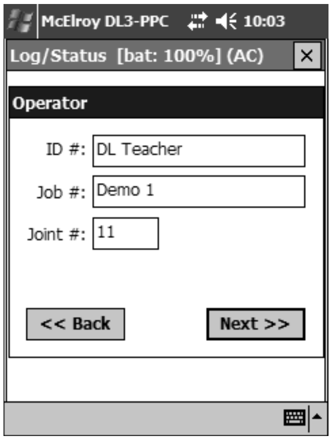
Machine

ID: McElroy 1

Model: #618 MF

PH02935-3-14-05

The next dialog box prompts for operator information:


McElroy DL3-PPC 10:03

Log/Status [bat: 100%] (AC)

Operator

ID #: DL Teacher

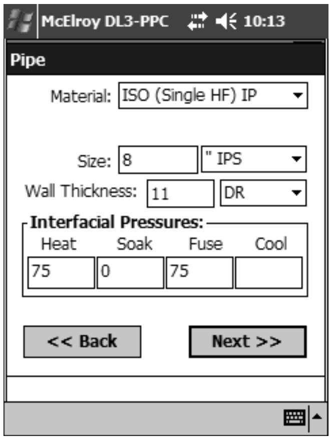
Job #: Demo 1

Joint #: 11

PH02936-3-14-05

Both operator ID and Job number are 20-character fields that accept alphabets and numeric characters. The joint number field is numeric-only, and will be automatically incremented after each joint.

The next dialog prompts for pipe parameters: material, size, wall thickness, and interfacial pressures:


McElroy DL3-PPC 10:13

Pipe

Material: ISO (Single HF) IP

Size: 8 " IPS

Wall Thickness: 11 DR

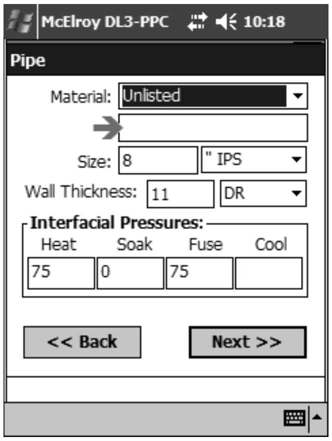
Interfacial Pressures:

Heat	Soak	Fuse	Cool
75	0	75	

PH02937-3-14-05

Setting up to Log a Joint (cont'd)

If your pipe material is not listed, please select “Unlisted” from the material list, and a new field appears so that you may enter your material name:


McElroy DL3-PPC 10:18
Pipe
<< Back
Next >>

Material: Unlisted

Size: 8 " IPS

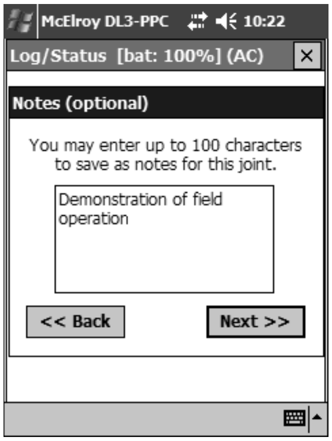
Wall Thickness: 11 DR

Interfacial Pressures:

Heat	Soak	Fuse	Cool
75	0	75	

PH02938-3-14-05

The next field allows you to type in optional notes to supplement the job description, for example positioning or location information. You may enter up to 100 characters:

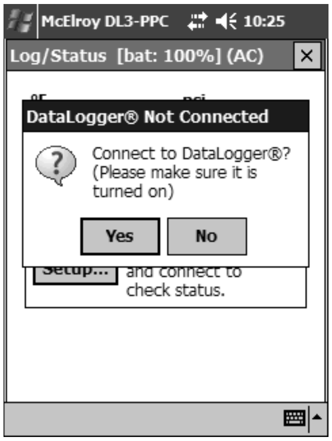

McElroy DL3-PPC 10:22
Log/Status [bat: 100%] (AC)
Notes (optional)
<< Back
Next >>

You may enter up to 100 characters to save as notes for this joint.

Demonstration of field operation

PH02939-3-14-05

If the DataLogger® is not already turned on and connected, a message box will appear to prompt you to turn it on and connect. At this point the DataLogger® should be on the fusion machine and its pressure transducer connected to the hydraulic system. The fusion machine should have pipe installed in it, faced off, and heater install and ready to fuse pipe.

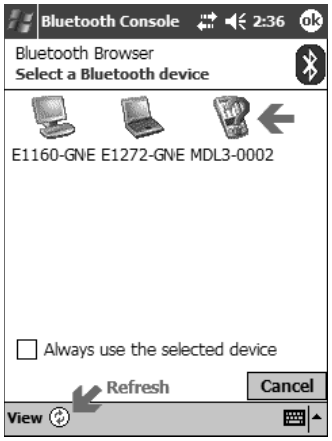

McElroy DL3-PPC 10:25
Log/Status [bat: 100%] (AC)
DataLogger® Not Connected
Yes
No
Setup...

Connect to DataLogger®? (Please make sure it is turned on)

and connect to check status.

PH02940-3-14-05

Press and release the DataLogger® multifunction switch to make sure it is turned on and flashing the blue and green LED (note: a flashing red LED indicates it is logging data).
Tap **Yes** to scan for the DataLogger® and connect to it:


Bluetooth Console 2:36 ok
Bluetooth Browser
Select a Bluetooth device
E1160-GNE
E1272-GNE
MDL3-0002
Refresh
Cancel
View

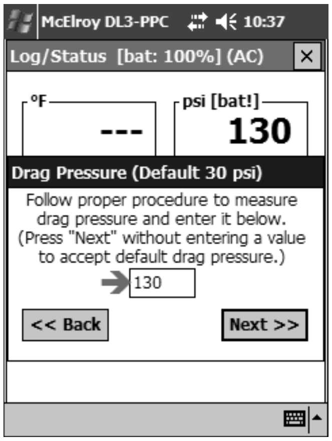
☐ Always use the selected device

PH02930-3-14-05

Setting up to Log a Joint (cont'd)

Once the DataLogger® is found, tap on the name that starts with "MDL3" to establish connection. The blue LED on the DataLogger® will stay lit to indication communication between the DataLogger® and the Pocket PC.

The next dialog box prompts for Drag pressure measured:


McElroy DL3-PPC 10:37
Log/Status [bat: 100%] (AC)
°F
---
psi [bat!]
130
<< Back
Next >>

Drag Pressure (Default 30 psi)

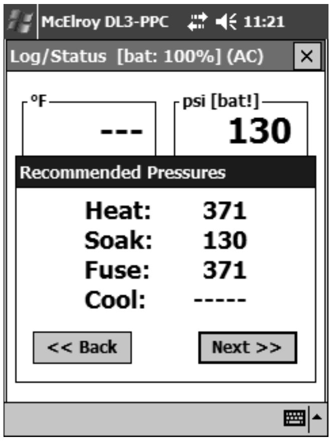
Follow proper procedure to measure drag pressure and enter it below. (Press "Next" without entering a value to accept default drag pressure.)

130

PH02941-3-14-05

The DataLogger® pressure transducer must have already been connected to the fusion machine to measure drag pressure. Follow proper procedure to measure drag pressure and enter it in the dialog box.

The next dialog box shows the recommended gauge pressures, and you can use it to set the various pressures (heat, soak, and fuse pressure) of your fusion machine:

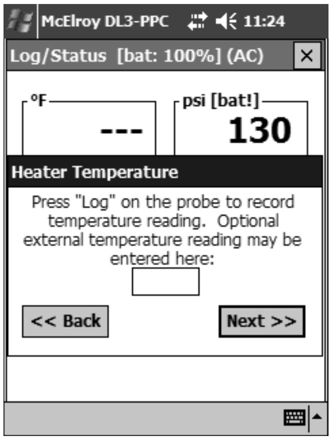

McElroy DL3-PPC 11:21
Log/Status [bat: 100%] (AC)
°F
---
psi [bat!]
130
<< Back
Next >>

Recommended Pressures

Heat: 371
Soak: 130
Fuse: 371
Cool: -----

PH02942-3-14-05

The next dialog box prompts for heater temperature measurement.


McElroy DL3-PPC 11:24
Log/Status [bat: 100%] (AC)
°F
---
psi [bat!]
130
<< Back
Next >>

Heater Temperature

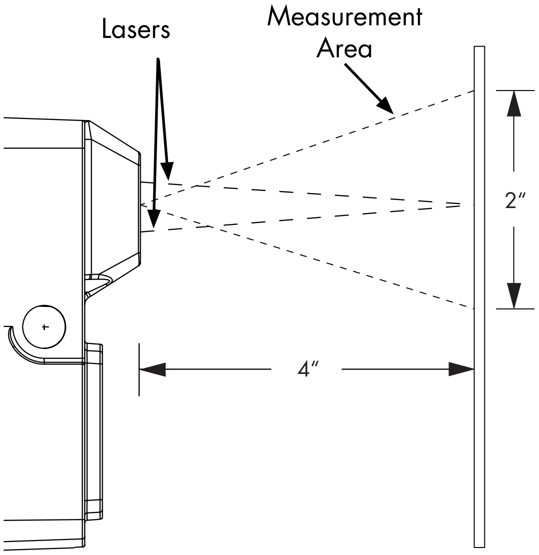
Press "Log" on the probe to record temperature reading. Optional external temperature reading may be entered here:

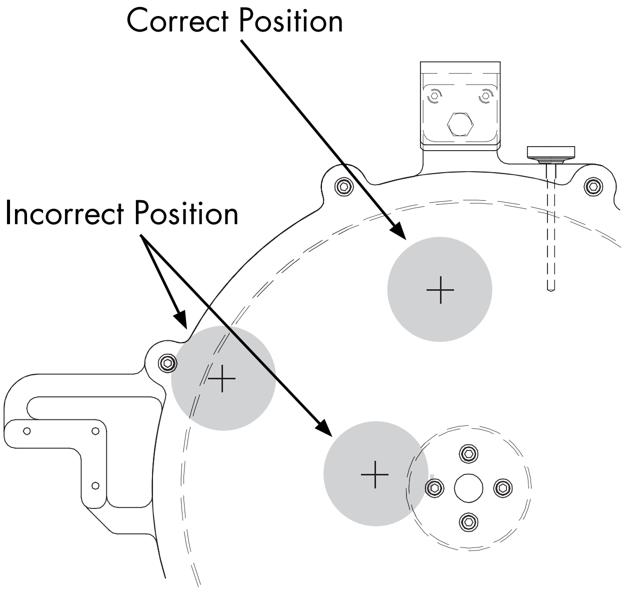
PH02943-3-14-05

To measure heater temperature, hold the top of the DataLogger® about 4 inches from the heater plate and perpendicular to the heater plate, pointing the temperature sensor at the heater plate. Press and hold the DataLogger® switch to turn on the guidance lasers. Adjust the distance between the DataLogger® and the heater plate until the two laser beams converge to a single point. Use the Pocket PC screen to read the temperature.

Setting up to Log a Joint (cont'd)

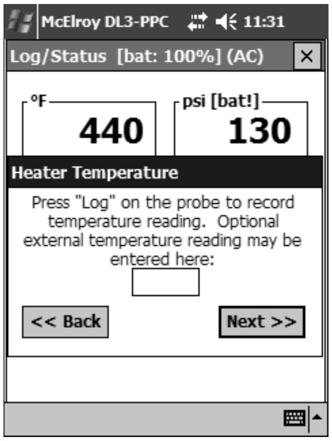
The Datalogger® reads the temperature in a 2 inch area around the points of the lasers. Make sure you take the reading from an area that has no obstructions. Make sure the 2 inch area is completely on the heating surface of the heater.


Lasers
Measurement Area
2″
4″


Correct Position
Incorrect Position

Once the temperature is stable, release the DataLogger® multi-function switch to record the temperature. Notice the temperature box flashes “* **Log XXX°F**” to indicate recorded temperature.

If an external temperature probe is used as a secondary temperature-measuring device (such as a pyrometer), the reading from the device can be entered n the optional “external temperature reading” field.


McElroy DL3-PPC
11:31
Log/Status [bat: 100%] (AC)
×
°F
psi [bat!]
<< Back
Next >>

440

130

Heater Temperature

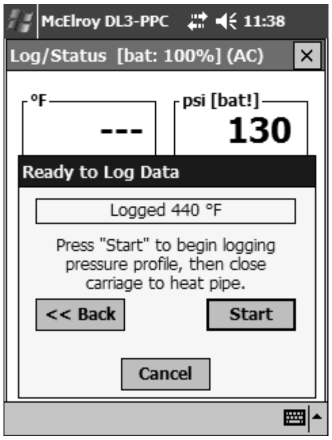
Press "Log" on the probe to record temperature reading. Optional external temperature reading may be entered here:

PH02944-3-14-05

The next dialog box prompts you to get ready to fuse the pipe:

At this point, the fusion machine should have pipe installed in it, faced off, and heater install and ready to fuse pipe.

If ready to proceed, tap **Start** and wait for the DataLogger® to begin logging before initiating the fusion process.


McElroy DL3-PPC
11:38
Log/Status [bat: 100%] (AC)
×
°F
psi [bat!]
<< Back
Start
Cancel

130

Ready to Log Data

Logged 440 °F

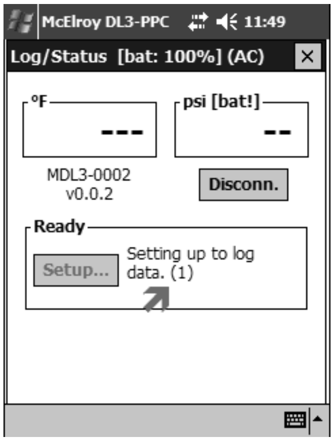
Press "Start" to begin logging pressure profile, then close carriage to heat pipe.

PH02945-3-14-05

TX02520-6-20-05

Logging the Fusion Process

After taping the **Start** button on the Pocket PC to log data, the Pocket PC transmit all the data entered to the DataLogger®. You will see a screen such as:



McElroy DL3-PPC 11:49

Log/Status [bat: 100%] (AC)

°F ---

psi [bat!] --

MDL3-0002
v0.0.2

Disconn.

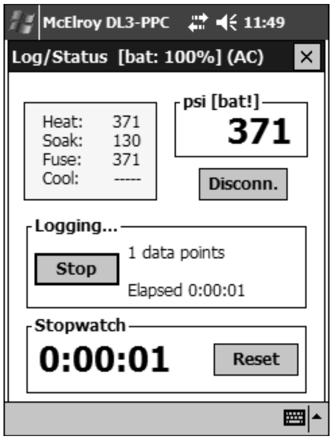
Ready

Setup...

Setting up to log data. (1)

PH02946-3-11-05

This screen and subsequent ones show the data blocks that are transmitted to the DataLogger®. Once the data is transmitted, the stopwatch appears at the bottom of the dialog box:



McElroy DL3-PPC 11:49

Log/Status [bat: 100%] (AC)

Heat: 371
Soak: 130
Fuse: 371
Cool: -----

psi [bat!] 371

Disconn.

Logging...

Stop

1 data points

Elapsed 0:00:01

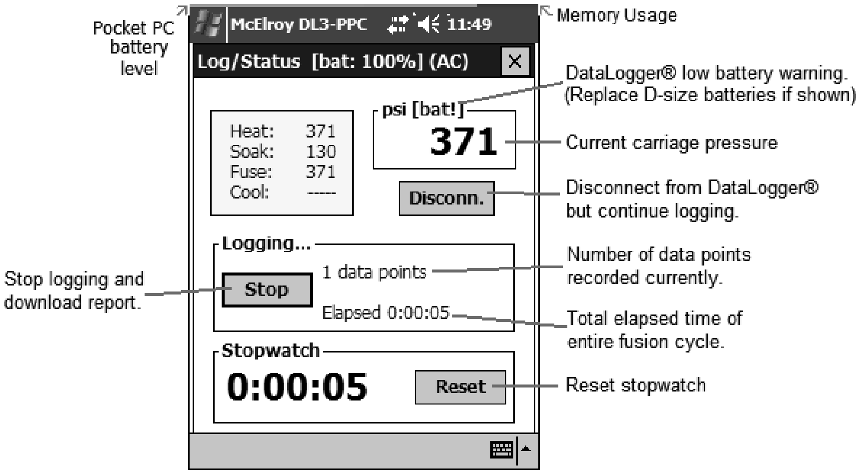
Stopwatch

0:00:01

Reset

PH02947-3-11-05

At this point, you may proceed to close the carriage to move the pipes towards the heater plate. The stopwatch will continue to count, and the status updated. The DataLogger® will flash it's red LED to indicate it is in logging mode.



McElroy DL3-PPC 11:49

Log/Status [bat: 100%] (AC)

Heat: 371
Soak: 130
Fuse: 371
Cool: -----

psi [bat!] 371

Disconn.

Logging...

Stop

1 data points

Elapsed 0:00:05

Stopwatch

0:00:05

Reset

Pocket PC battery level
Memory Usage
DataLogger® low battery warning. (Replace D-size batteries if shown)
Current carriage pressure
Disconnect from DataLogger® but continue logging.
Stop logging and download report.
Number of data points recorded currently.
Total elapsed time of entire fusion cycle.
Reset stopwatch

PH02948-3-11-05

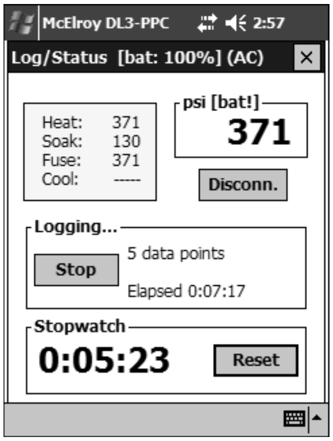
Logging the Fusion Process (cont'd)

Once logging has started, you may exit the Log/Status dialog box, and turn off the Pocket PC to conserve battery power. The DataLogger® will continue to log data while you monitor and control the fusion process – heat, soak, fuse cycles.

At the end of the fusion process, you may stop logging by holding the DataLogger® switch for 4 seconds. The DataLogger® will stop logging and stop flashing its red LED. The LED will now flash green to indicate normal operation.

Note: always stop logging before opening carriage to remove pipe. Otherwise, it will introduce an unintended change in pressure at the end of the joint report graph.

Alternatively, you may also stop logging from your Pocket PC. If the Pocket PC was turned off, turn it on. In the **Log/Status** dialog box tap **Connect**. Once connected, the current status of the DataLogger® is displayed:


McElroy DL3-PPC 2:57

Log/Status [bat: 100%] (AC)

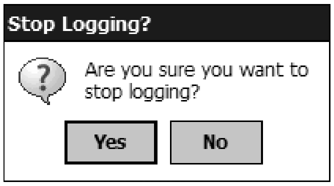
Heat: 371
Soak: 130
Fuse: 371
Cool: -----

psi [bat!] 371

Logging...
5 data points
Elapsed 0:07:17

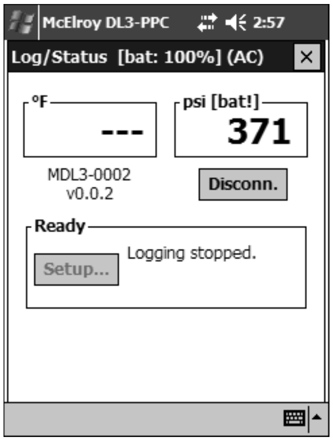
Stopwatch
0:05:23

Tap **Stop** at the end of the fusion process. (Always make sure to stop logging before opening carriage to remove pipe)


Stop Logging?

Are you sure you want to stop logging?

A confirmation message box appears. Tap **Yes** to stop logging.


McElroy DL3-PPC 2:57

Log/Status [bat: 100%] (AC)

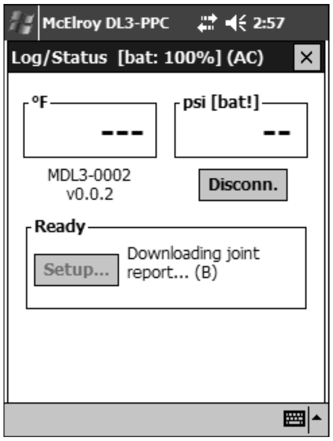
°F ---

psi [bat!] 371

MDL3-0002
v0.0.2

Ready
Logging stopped.

The Pocket PC begins to request joint report data from the DataLogger® a block at a time until it is all downloaded.


McElroy DL3-PPC 2:57

Log/Status [bat: 100%] (AC)

°F ---

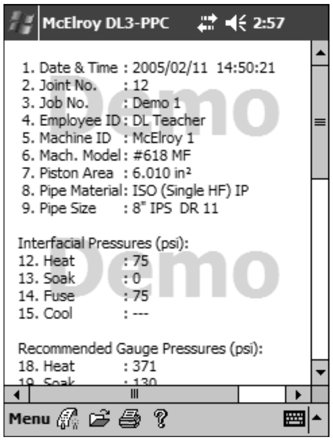
psi [bat!] --

MDL3-0002
v0.0.2

Ready
Downloading joint report... (B)

Logging the Fusion Process (cont'd)

At the end of the download, the joint report is displayed on the screen:


McElroy DL3-PPC
2:57
Menu

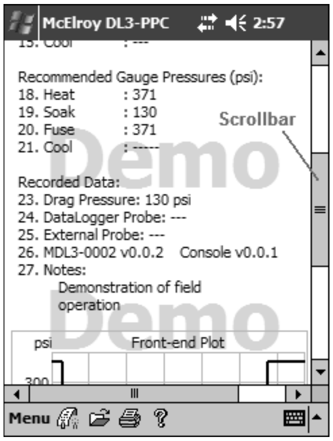
1. Date & Time : 2005/02/11 14:50:21
2. Joint No. : 12
3. Job No. : Demo 1
4. Employee ID : DL Teacher
5. Machine ID : McElroy 1
6. Mach. Model : #618 MF
7. Piston Area : 6.010 in²
8. Pipe Material: ISO (Single HF) IP
9. Pipe Size : 8" IPS DR 11

Interfacial Pressures (psi):
12. Heat : 75
13. Soak : 0
14. Fuse : 75
15. Cool : ---

Recommended Gauge Pressures (psi):
18. Heat : 371
19. Soak : 130

PH02953-3-14-05

You may use the scroll bar to scroll through the report:

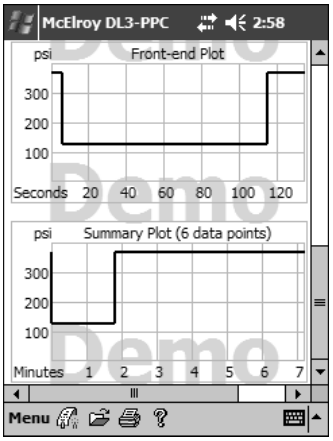

McElroy DL3-PPC
2:57
Scrollbar
Menu

Recommended Gauge Pressures (psi):
18. Heat : 371
19. Soak : 130
20. Fuse : 371
21. Cool : -----

Recorded Data:
23. Drag Pressure: 130 psi
24. DataLogger Probe: ---
25. External Probe: ---
26. MDL3-0002 v0.0.2 Console v0.0.1
27. Notes:
Demonstration of field operation

PH02954-3-14-05

The front-end plot highlights the critical shift-sequence into the soak cycle. The summary plot shows the entire fusion process from start to stop. (**Note:** this is only a demonstration. Data used are fictitious and for demonstration purposes only)


McElroy DL3-PPC
2:58
psi
Front-end Plot
300
200
100
Seconds
20
40
60
80
100
120
psi
Summary Plot (6 data points)
300
200
100
Minutes
1
2
3
4
5
6
7
Menu

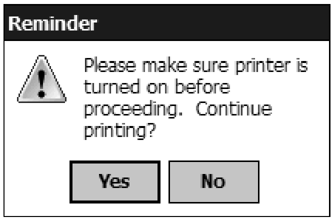
PH02955-3-14-05

TX02521-6-20-05

Printing Reports (Optional)

Joint reports are stored in duplicates, one copy in the Pocket PC's main memory (battery backed up), and another copy in the Secure Digital (SD) Card (non-volatile memory). For additional backup, reports can be printed to an optional printer in the field after the completion of each joint - **highly recommended for jobs requiring joint reports.**

To print the current report, simply tap the printer icon at the bottom of the screen, or tap **Menu > Print...** A message box prompts you to turn on the optional printer:

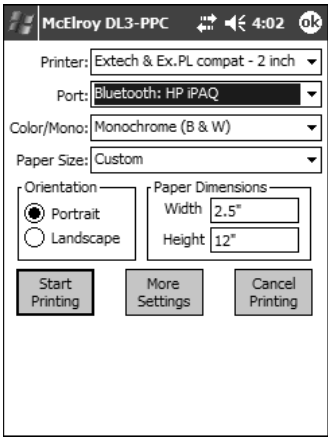


Reminder

Please make sure printer is turned on before proceeding. Continue printing?

PH02956-3-14-05

Turn on the printer and tap **Yes** to show the printer dialog box. Make sure the following settings are selected then tap **Start Printing**.



McElroy DL3-PPC 4:02

Printer: Extech & Ex.PL compat - 2 inch

Port: Bluetooth: HP iPAQ

Color/Mono: Monochrome (B & W)

Paper Size: Custom

Orientation

● Portrait

○ Landscape

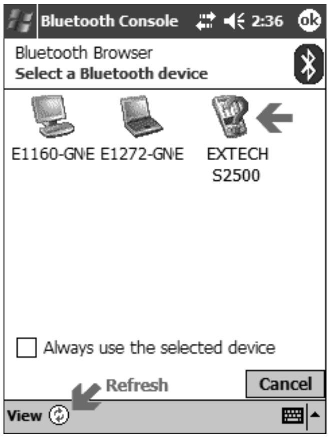
Paper Dimensions

Width 2.5"

Height 12"

PH02957-3-14-05

The Bluetooth® Console appears to allow printer selection. If no printer is present, tap the Refresh icon and wait for the Bluetooth icon on the upper right corner. Select the EXTECH printer you are printing to by tapping it.



Bluetooth Console 2:36

Bluetooth Browser

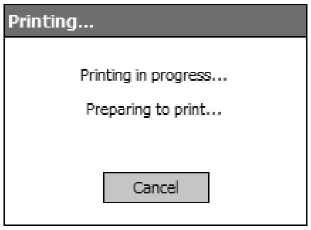
Select a Bluetooth device

E1160-GNE E1272-GNE EXTECH S2500

☐ Always use the selected device

PH02958-3-14-05

Once selected, a series of message boxes will appear giving the status of the printer, and the printer will start printing:

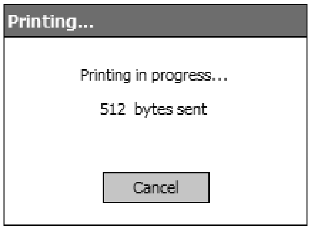


Printing...

Printing in progress...

Preparing to print...

PH02959-3-14-05

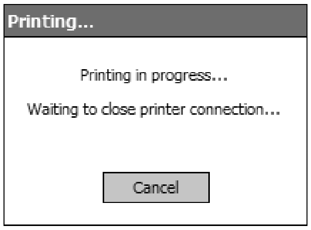


Printing...

Printing in progress...

512 bytes sent

PH02960-3-14-05



Printing...

Printing in progress...

Waiting to close printer connection...

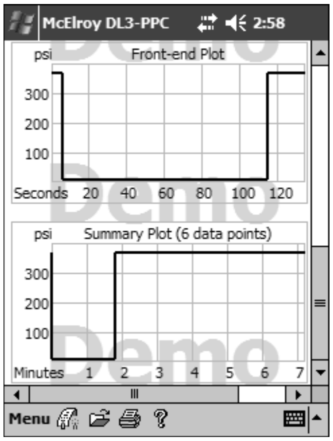
PH02961-3-14-05

TX02522-6-20-05

Sample Joint Report Graphs

The appearance of joint reports varies due to several factors, but their basic profile resembles the following samples:

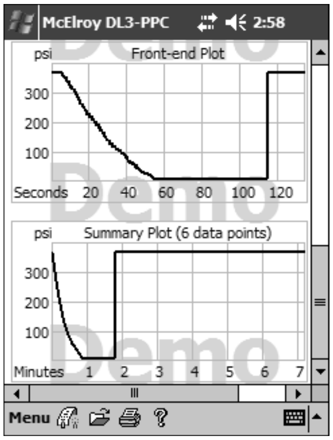
Typical fusion process:


McElroy DL3-PPC
2:58
psi
Front-end Plot
300
200
100
Seconds 20 40 60 80 100 120
psi
Summary Plot (6 data points)
300
200
100
Minutes 1 2 3 4 5 6 7
Menu
Demo

PH02962-3-14-05

Possible incorrect shift sequence:

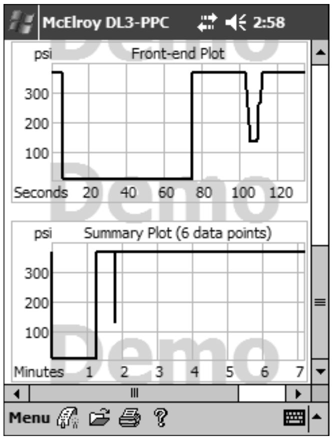
The carriage pressure was not lowered to drag pressure before the directional valve is put in neutral, thereby trapping high pressure in the carriage during soak cycle:


McElroy DL3-PPC
2:58
psi
Front-end Plot
300
200
100
Seconds 20 40 60 80 100 120
psi
Summary Plot (6 data points)
300
200
100
Minutes 1 2 3 4 5 6 7
Menu
Demo

PH02963-3-14-05

Possible fuse pressure interrupted:

Carriage pressure interrupted during the fuse or cool cycle showing a temporary dip in pressure.


McElroy DL3-PPC
2:58
psi
Front-end Plot
300
200
100
Seconds 20 40 60 80 100 120
psi
Summary Plot (6 data points)
300
200
100
Minutes 1 2 3 4 5 6 7
Menu
Demo

PH02964-3-14-05

TX02523-6-20-05

Transferring Joint Reports to PC

Joint Reports stored in the Pocket PC's memory and SD Card can be transferred to a Desktop PC for additional storage. There are two ways to transfer joint reports. One is using an SD card reader, and the other is using Microsoft ActiveSync.

Transferring with SD Card Reader

1) Connect the SD card reader to your Desktop PC's USB port. If this is the first time the SD card reader is inserted, your Desktop PC may begin an initialization process that could take a minute or two.
2) Exit DL3-PPC program: Tap **Menu > Exit**. (Note: Always exit program before inserting or removing SD card.)
3) Remove the SD card from the Pocket PC by depressing the SD card and allow it to pop out of the Pocket PC.
4) Insert the SD card in the SD card reader.
5) Windows Explorer opens and displays the content of the SD card. Navigate to the **Joint Reports** folder
6) For convenience, please copy the **Joint Reports** folder to your **My Documents** folder on your Desktop PC by dragging the report folder from the SD card folder into the Desktop PC's **My Documents** folder.

After making sure the reports are backed up, report files on the SD card can be deleted to make more room on the card. Alternatively, the SD card can be archived without deleting the reports, and a new SD card can be used to store new data.

Transferring with Microsoft ActiveSync

1) If not yet installed, please install Microsoft ActiveSync before proceeding. Follow the instructions provided by Microsoft to install the ActiveSync software on your Desktop PC before plugging in the USB Sync Cable.
2) With care, connect the Pocket PC to the U SB cable or cradle.
3) Skip partnership between your Desktop PC and the Pocket PC via ActiveSync to connect as guest, click on the Explore button on the ActiveSync window.
4) The "Mobile Device" window opens and you will see a "Joint Reports" folder. You may copy the entire folder over to your PC by drag-and-drop. For convenience, please copy the folder to your **My Documents** folder on your Desktop PC. Once the reports are securely backed up on your Desktop PC, you may delete the files in the "**Joint Reports**" folder.
5) In the case of HP iPAQ's there is another copy of reports in the SD Card. To access reports in the SD card, double click on **My Pocket PC**. Find a folder called **Storage Card** or **SD Card**. Double click on it to reveal the **Joint Reports** folder. Reports in this folder are identical to the Pocket PC version since it is a backup. You may copy and then delete the reports in the folder.
6) In the case of TDS Recon, reports are stored in the "Built-in Storage" non-volatile memory area. Only one copy of the report is stored.

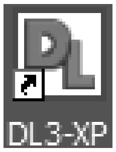
NOTE: The Pocket PC and SD card have large enough capacity to store thousands of joint reports. However, it is advisable to backup your data as frequently as you can to avoid losing data.

DX3-XP: Viewing and Printing Reports on the Desktop PC

The software DL3-XP allows you to view and print joint reports on your Desktop PC.

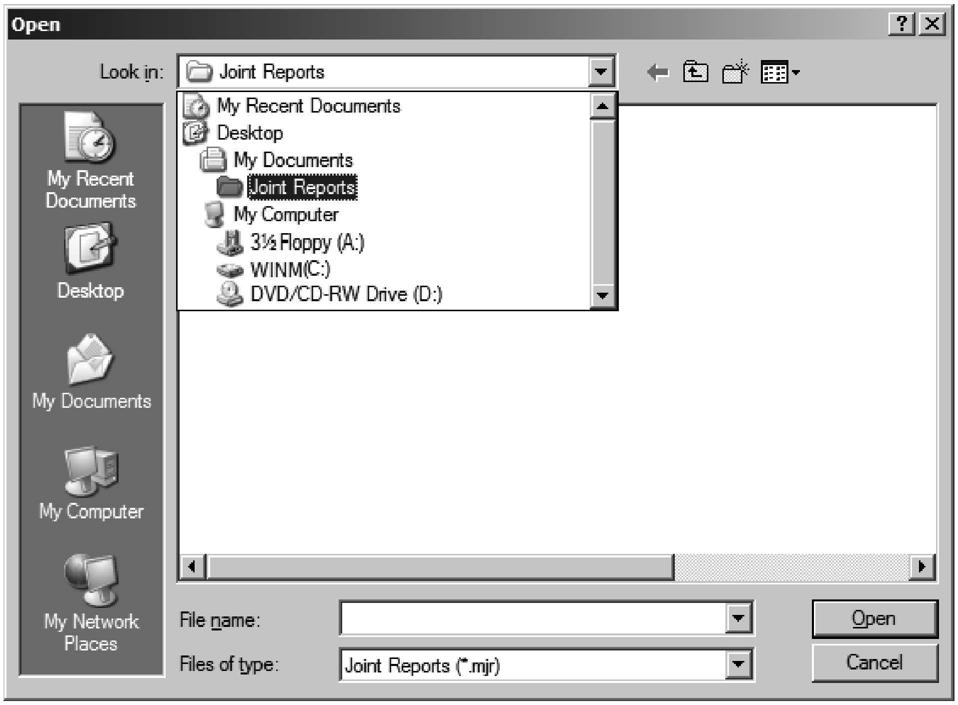
Install DL3-XP on your PC with the accompanying SD Card if not already installed. To install, place the SD card in the SD Card reader and connect the reader to an available USB port on your PC. A window will open and shows the content of the SD Card. If the Window does not open, use Windows Explorer to navigate to the SD Card. Double click the "XP Setup Files" folder to open it. Double click "Setup".

Follow the prompts on the PC screen to complete the installation process. Once installed, the DL3-XP icon appears on your PC's desktop. To run the program, simply click on the desktop icon or click **Start > Programs > McElroy > DL3-XP > DL3-XP**.



To view reports on your PC screen, click **File > Open**. Navigate to the **Joint Reports** folder and select a previously downloaded report:

TX02525-6-20-05


Open
My Recent Documents
Desktop
My Documents
Joint Reports
My Computer
3½ Floppy (A:)
WINM(C:)
DVD/CD-RW Drive (D:)
My Recent Documents
Desktop
My Documents
My Computer
My Network Places
File name:
Open
Cancel

Look in: Joint Reports

Files of type: Joint Reports (*.mjr)

PH02965-3-14-05

DL3-XP Menu

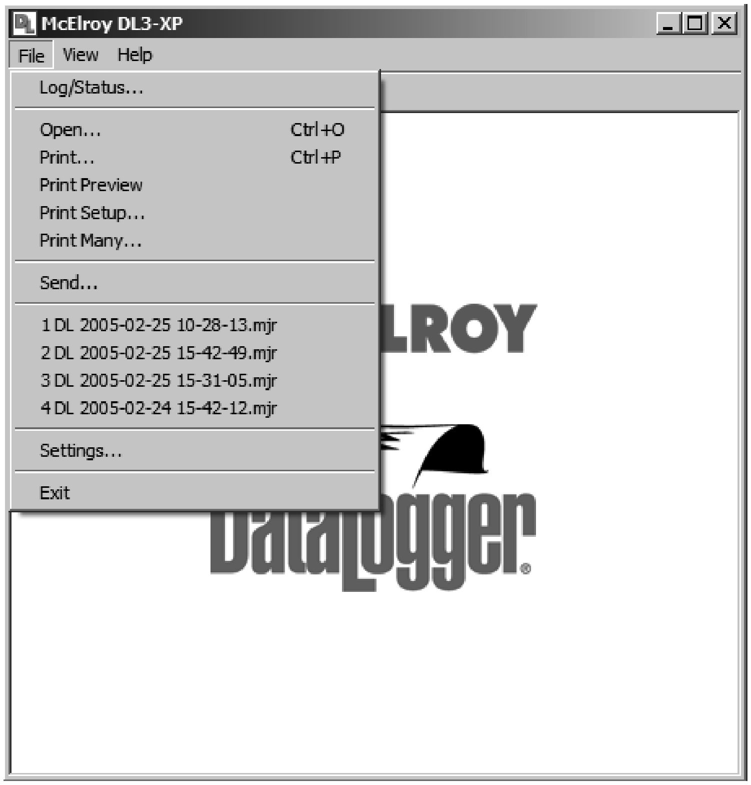
File > Log/Status...
Opens the Log/Status dialog box to allow Bluetooth®-equipped Windows XP PC's to monitor the status of the DataLogger® or set it up to log data. Refer to The **Log/Status** Dialog Box section for details on setting up to log the fusion process.

File > Open...
Opens a previously downloaded or saved file for viewing and printing.

File > Print...
Prints the joint report in the current view.

File > Print Preview
Preview the print version of the joint report in the current view.

File > Print Setup...
Select a printer and a printer connection. This command presents a Print Setup dialog box, where you specify the printer and its connection.


McElroy DL3-XP
File
View
Help
Log/Status...
Open... Ctrl+O
Print... Ctrl+P
Print Preview
Print Setup...
Print Many...
Send...
1 DL 2005-02-25 10-28-13.mjr
2 DL 2005-02-25 15-42-49.mjr
3 DL 2005-02-25 15-31-05.mjr
4 DL 2005-02-24 15-42-12.mjr
Settings...
Exit
LROY
DataLogger®

PH02967-3-14-05

File > Print Many...
Print one or more joint reports. A file dialog box will open and you may select one, a few or all joint reports within a folder to be printed.

To select a group of joint reports in series, click the first joint reports you want to print, then hold down the **Shift** key and click the last joint report you want to print. When you release the mouse button, the select joint reports will be highlighted.

To select a group of joint reports while skipping others, click on the first joint report you want to print, then hold down the **Ctrl** key and click on the joint reports you want to print one at a time. Release the **Ctrl** key only after the last report is selected. Selected reports are highlighted.

Click **Open** to print the selected reports.

File > Send
Send (email) the joint report in the current view. This command presents a mail window with the displayed joint report attached to it. You may then fill out the **To** field, **Subject** field, etc., and add text to the body of the message if you wish. When you are finished you may click the "**Send**" button to send the message.

File > Settings...
Change program settings such as COM port, pressure unit, temperature unit, and toggle demo mode.

TX02526-6-20-05

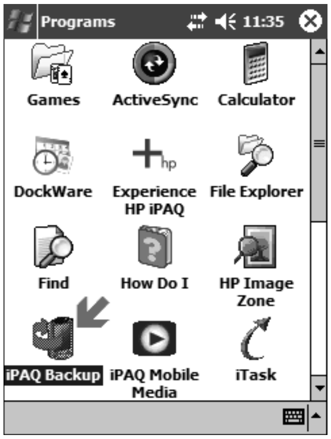
Restoring Pocket PC Programs and Settings

Restoring Pocket PC Programs and Settings for iPAQ rx3115

Programs and settings in the older Pocket PC (**iPAQ rx3115**) can be lost if the Pocket PC batteries are not charged. However, a McElroy -supplied Pocket PC comes with a copy of programs and settings stored in the non-volatile Flash memory (iPAQ File Store), and the Pocket PC can be restored.

Follow these steps to restore the Pocket PC:

1. Make sure the Pocket PC's battery is fully charged, or the AC adapter is attached and charging the battery.

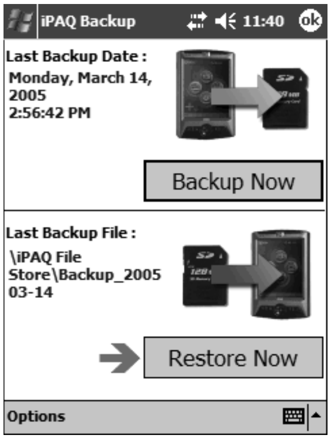

Programs
11:35
Games
ActiveSync
Calculator
DockWare
Experience HP iPAQ
File Explorer
Find
How Do I
HP Image Zone
iPAQ Backup
iPAQ Mobile Media
iTask

PH03015-4-13-05

2. Turn on the Pocket PC and follow the prompts to align the screen and complete the usage tutorial, and select your time zone. (If the Pocket PC fails to come on, attach the AC adapter)

3. Set date and time: Tap **Start > Settings**. Tap the **System** tab. Tap **Clock & Alarms**. Select the respective time and date field by tapping on it and adjust the values accordingly. For example to change the hour field, tap on it and then use the up and down arrow keys to adjust the number up or down. [For more details, refer to the **Setting Time and Date** section to check and set the correct date and time.

   IMPORTANT: Set the correct time and date because joint reports are time stamped using the Pocket PC's clock.]


iPAQ Backup
11:40
ok
Backup Now
Restore Now
Options

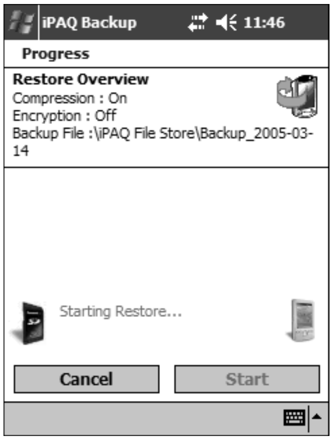
Last Backup Date : Monday, March 14, 2005 2:56:42 PM

Last Backup File : \iPAQ File Store\Backup_2005 03-14

PH03016-4-13-05

4. Tap **Start > Programs > iPAQ Backup** (or equivalent).

5. If there are no backup stored other then the default McElroy factory default, then click **Restore Now** and wait until the restore is complete.


iPAQ Backup
11:46
Progress
Cancel
Start

Restore Overview
Compression : On
Encryption : Off
Backup File :\iPAQ File Store\Backup_2005-03-14

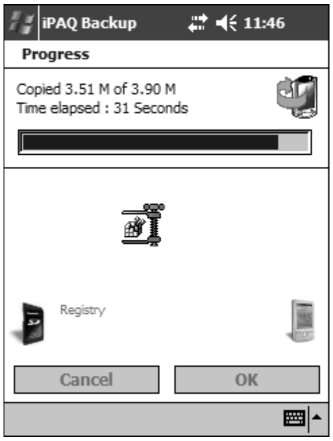
Starting Restore...

PH03017-4-13-05

6. Wait...

Restoring Pocket PC Programs and Settings (cont'd)

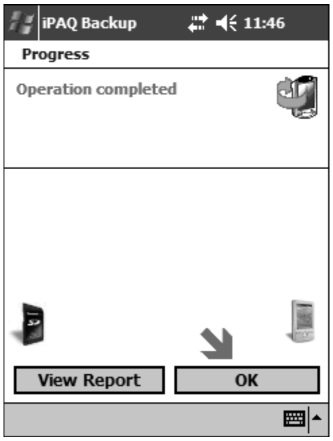
7. Wait…


iPAQ Backup
11:46
Progress
Registry
Cancel
OK

Copied 3.51 M of 3.90 M
Time elapsed : 31 Seconds

PH03018-4-13-05

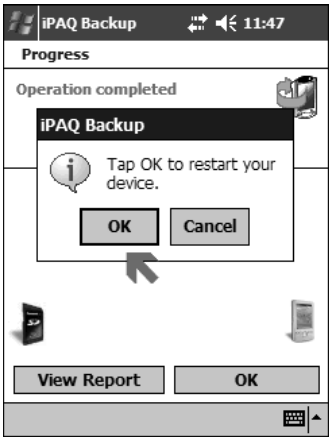
8. Tab OK to continue.


iPAQ Backup
11:46
Progress
View Report
OK

Operation completed

PH03019-4-12-05

9. Tab OK to restart.
After the restart, your Pocket PC is ready for use.


iPAQ Backup
11:47
Progress
iPAQ Backup
OK
Cancel
View Report
OK

Operation completed

Tap OK to restart your device.

PH03020-4-13-05

Set-up Pocket PC

Procedure for Setting up a new Pocket PC

Note: This section is for setting up a brand new Pocket PC not supplied by McElroy, for instance a store-bought unit replacing a damaged McElroy supplied Pocket PC. To restore a McElroy provided Pocket PC, please refer to the **Restore Pocket PC** section. Restoration is required if the Pocket PC battery is left uncharged for long periods of time causing loss of program and settings.

For basic operation of the Pocket PC, please refer to the documentation that came with the Pocket PC.

The instructions and references given below are based on the **HP iPAQ rx3115** Pocket PC, but most features are common to all Pocket PC's.

Notes for the HP iPAQ rx3115 and Pocket PC with DockWare and iPAQ Entertainment buttons:

1) The rx3115 comes with DockWare, a personalized desktop clock, calendar and screen saver. It may come on after 5 minutes of inactivity. To disable the feature, tap **Start > Programs > Dock Ware**. When the picture and/or calendar appear, hold the style on the screen until a menu shows up. Uncheck the **Start Automatically**. Tap anywhere on the picture or calendar to exit DockWare.

2) The rx3115 also comes standard with the iPAQ Entertainment buttons on the main (or Today) screen. To disable the feature, tap **Start > Settings > Today**, tap **Items**, uncheck **iPAQ Entertainment**, and tap **OK**. Tap **X** to return to the main screen.

128MB
Start
4:37
hp
New
iPAQ

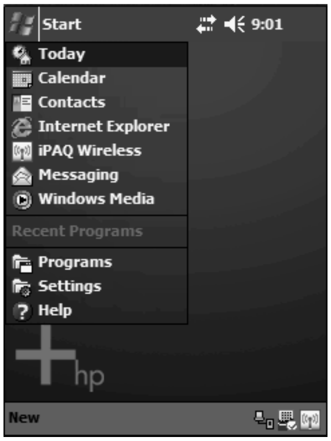
PH02905-3-11-05

1) Follow the instruction in our Pocket PC manual or user guide to set time and date or refer to the **Setting Time and Date** section.

   IMPORTANT: Joint reports are time stamped using the Pocket PC's clock.

2) Insert the DL3-PPC Setup SD Card into Pocket PC

3) Tap on Start to bring up the main menu.

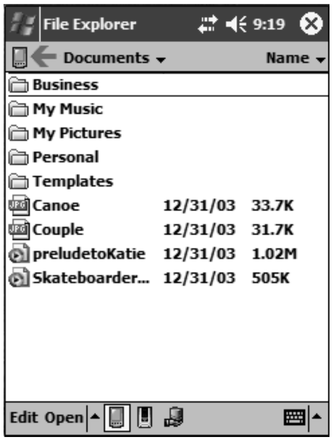


PH02906-3-11-05

Procedure for Setting up a new Pocket PC (cont'd)

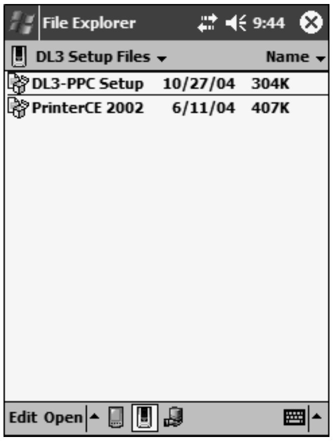
4) Install Application

   A) Tap **Programs** tab > **File Explorer**.
   B) Tap on the Pocket PC icon next to **My Documents** (as shown by the red arrow).
   C) When the drop down menu appears, tap on **My Device**.
   D) Tap **SD Card** or **Storage Card**.
   E) Tap on the **PPC Setup Files** folder.
   F) Tap **DL3-PPC Setup** to install the program.



Documents		
Business		
My Music		
My Pictures		
Personal		
Templates		
Canoe	12/31/03	33.7K
Couple	12/31/03	31.7K
preludetoKatie	12/31/03	1.02M
Skateboarder...	12/31/03	505K

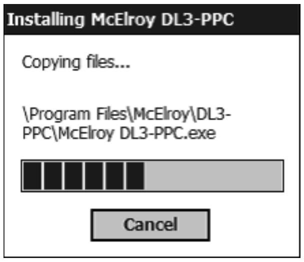
PH02907-3-11-05



DL3 Setup Files		
DL3-PPC Setup	10/27/04	304K
PrinterCE 2002	6/11/04	407K

PH02908-3-11-05

5) The setup program will run automatically and displays progress reports along the way



Installing McElroy DL3-PPC

Copying files...

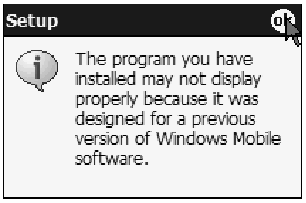
\Program Files\McElroy\DL3-PPC\McElroy DL3-PPC.exe

PH02909-3-11-05

6) After returning to File Explorer, tap on **PrinterCE 2003** to install the optional Extech printer driver.

7) If this message appears, simply tap **OK** to complete the installation.

8) Tap on the **X** at the top right hand corner of **File Explorer** to close the view. Tap the next **X** at the top right hand corner of **Programs** to close the view.



Setup

The program you have installed may not display properly because it was designed for a previous version of Windows Mobile software.

PH02910-3-11-05

Procedure for Setting up a new Pocket PC (cont'd)

9) Refer to the Pocket PC's manual to make sure Bluetooth is turned on.

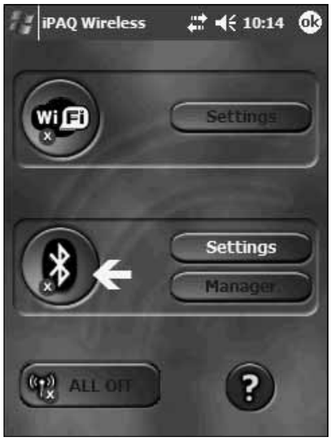
In the case of iPAQ rx3115, Bluetooth can be turned on by accessing the **iPAQ Wireless** feature from the **Start** menu, or from the icon at the lower right hand corner of the main (or **Today**) screen.

If the tutorial screen appears, tap **X** to exit from it.

Tap on the **Bluetooth** icon (as shown by the arrow) to turn it on.

Wait for the button to turn green indicating it is on.

Tap on **Settings** button.

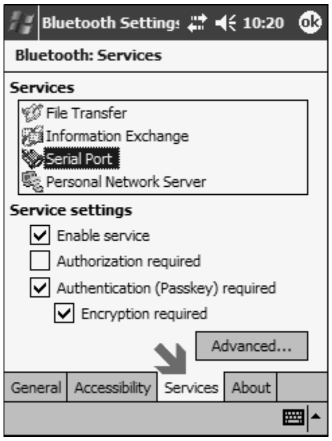

iPAQ Wireless
10:14
ok
Settings
Settings
Manager
ALL OFF
?

PH02911-3-11-05

10) Tap on **Services** in Bluetooth Settings.

Tap on **Serial Port**.

Tap **Advanced...**


Bluetooth Settings
10:20
ok
Advanced...
General
Accessibility
Services
About

Bluetooth: Services

Services

- File Transfer
- Information Exchange
- Serial Port
- Personal Network Server

Service settings

☑ Enable service

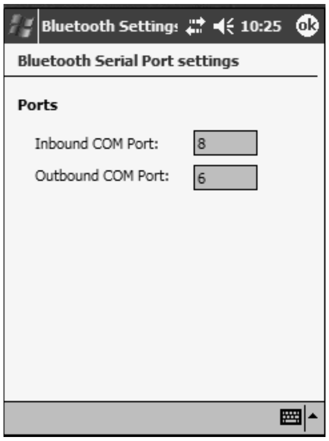
☐ Authorization required

☑ Authentication (Passkey) required

☑ Encryption required

PH02912-3-11-05

11) Note the **Outbound COM Port** in **Bluetooth Serial Port Settings**. It will be used in the DL3-PPC program setting.


Bluetooth Settings
10:25
ok

Bluetooth Serial Port settings

Ports

Inbound COM Port: 8

Outbound COM Port: 6

PH02913-3-11-05

12) Tap **OK** to exit **Bluetooth Serial Port Settings**.

Tap **OK** to exit **Bluetooth Services**.

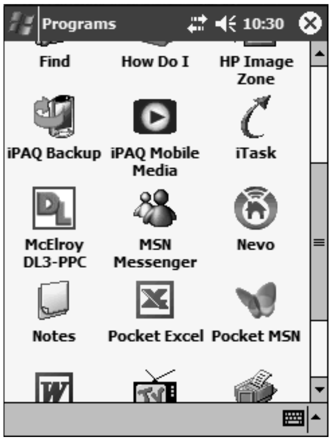
Tap **OK** to exit **iPAQ Wireless**.

Procedure for Setting up a new Pocket PC (cont'd)

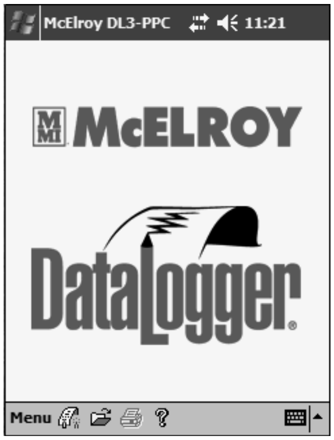
13) Tap **Start > Programs**.

Scroll down the list of icons to locate the **McElroy DL3-PPC** program icon.

Tap on the **McElroy DL3-PPC** icon to run the program.


Programs
10:30
Find
How Do I
HP Image Zone
iPAQ Backup
iPAQ Mobile Media
iTask
McElroy DL3-PPC
MSN Messenger
Nevo
Notes
Pocket Excel
Pocket MSN

PH02914-3-11-05


McElroy DL3-PPC
11:21
McELROY
DataLogger
Menu

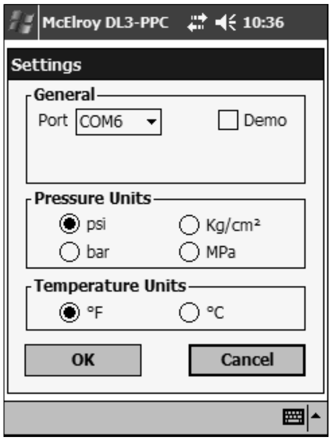
PH02915-3-11-05

14) Tap **Menu > Settings**.
Make sure the **Port** setting matches the **Outbound COM Port** in step 11.

Pressure and temperature units can also be changed at this time.

The **Demo** check box sets the unit in demo mode for training and testing purposes only.

Tap **OK** to save the settings and exit the **Settings** dialog box.


McElroy DL3-PPC
10:36
Settings
General
Pressure Units
Temperature Units
OK
Cancel

Port COM6 ☐ Demo

● psi ○ Kg/cm²
○ bar ○ MPa

● °F ○ °C

PH02916-3-11-05

Procedure for Setting up a new Pocket PC (cont'd)

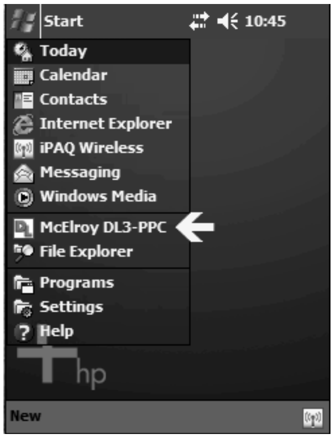
15) Tap **Menu > Exit** to completely exit the **DL3-PPC** program.

Tap **X** at the top right hand corner of Programs to close it.

Note: from this point on, the **McElroy DL3-PPC** program icon appears in the **Start** menu, and can be accessed by tapping **Start** and selected from the icon.

16) At this point, the Pocket PC setup is complete.

The next steps create a backup of all the programs and settings for rapid recovery in case the unit's batteries drained completely.


Start
10:45
Today
Calendar
Contacts
Internet Explorer
iPAQ Wireless
Messaging
Windows Media
McElroy DL3-PPC
File Explorer
Programs
Settings
Help
hp
New

PH02917-3-11-05

17) Tap **Start > Programs > iPAQ Backup** (or equivalent) to create a backup.

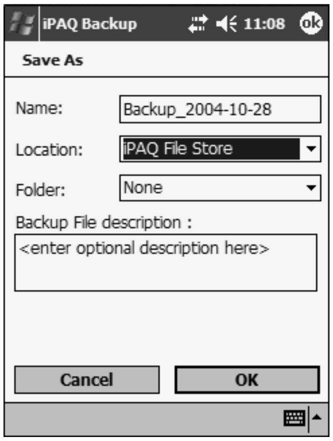
Tap **Options** and Switch to **Advanced Mode**.

Wait for the file system scan.

In the case of the rx3115, tap the **...** button to open the **Save As** dialog box.

Select **iPAQ File Store** (or equivalent) to store the backup. [Note: the SD card can also be used for backup, but storing backup on the unit itself makes restoring easier. Alternatively, a second backup copy can be stored on the SD card]

Tap **OK**.


iPAQ Backup
11:08
ok
Save As
Cancel
OK

Name: Backup_2004-10-28
Location: iPAQ File Store
Folder: None
Backup File description :
<enter optional description here>

PH02918-3-11-05

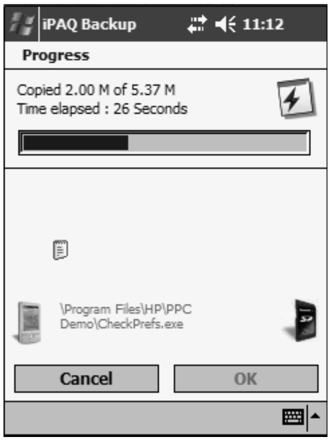
18) Tap **Backup...**

Tap **Start**.

The Progress screen appears.

Wait for the **Operation Complete** message and tap **OK**.

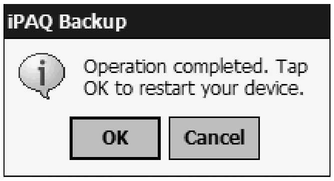
The rx3115 backup requires the unit to be reset. Tap **OK**.


iPAQ Backup
11:12
Progress
Cancel
OK

Copied 2.00 M of 5.37 M
Time elapsed : 26 Seconds

\Program Files\HP\PPC Demo\CheckPrefs.exe

PH02919-3-11-05


iPAQ Backup
OK
Cancel

Operation completed. Tap OK to restart your device.

PH02920-3-11-05

19) The rx3115 will reset and be ready for use.
The entire production setup process is now complete.

Set-up Recon X

Setup Instructions for DL3 Recon X

IMPORTANT: Applying an image restoration deletes all Joint Reports and return the Recon X to factory settings. For software updates, use the update instructions in section "Section."

This setup provides instructions for setting up the Recon X:

- Getting the setup image file from the Internet
- Set Recon X Date and Time
- Transferring the image file (RecXimg) onto the Recon X [factory setting]
- Setting up the Bluetooth® Radio
- Installing Printer Port (optional)
- Software Update

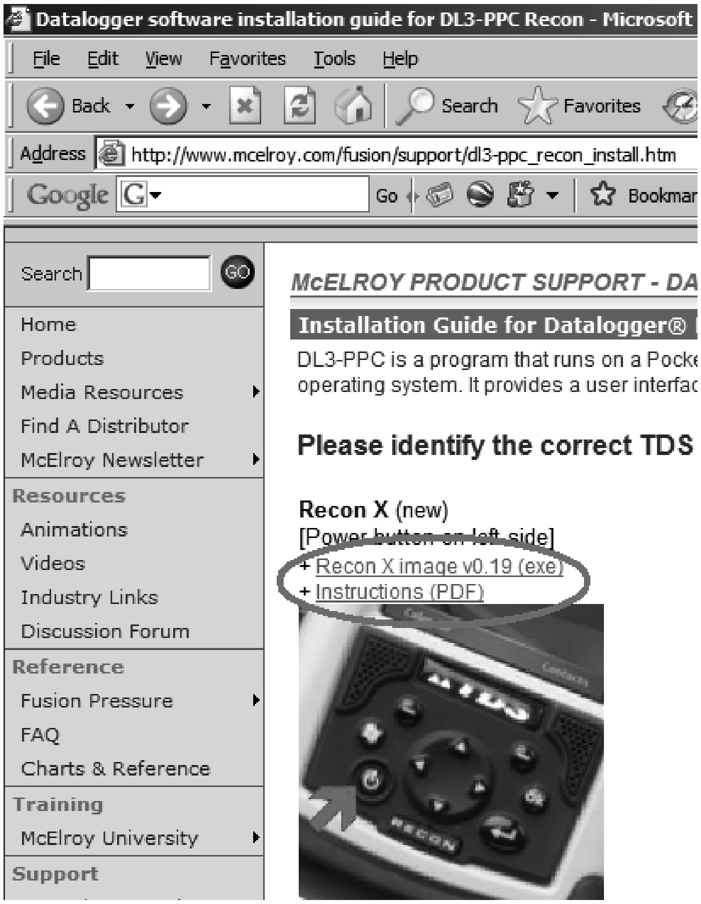
NOTE: The Recon X uses Microsoft's Bluetooth Stack, which requires a different communications partnership and COM port for every DataLogger and printer. Deleting an existing partnership is simple; simply hold down on the DataLogger icon in the Bluetooth screen and tap "Delete". Setting up a new partnership is easy too; simply follow the instructions in section "Section."

TX02671-10-31-06

Getting the Setup Image File from the Internet

The setup files and this manual can be downloaded from
http://www.mcelroy.com/fusion/support/dl3-ppc_recon_install.htm

Click on **Recon X image (exe)**


Datalogger software installation guide for DL3-PPC Recon - Microsoft
File
Edit
View
Favorites
Tools
Help
Back
Search
Favorites
Google
Go
Bookmar
Search
GO
Home
Products
Media Resources
Find A Distributor
McElroy Newsletter
Resources
Animations
Videos
Industry Links
Discussion Forum
Reference
Fusion Pressure
FAQ
Charts & Reference
Training
McElroy University
Support

Address http://www.mcelroy.com/fusion/support/dl3-ppc_recon_install.htm

McELROY PRODUCT SUPPORT - DA

Installation Guide for Datalogger®

DL3-PPC is a program that runs on a Pocke
operating system. It provides a user interfac

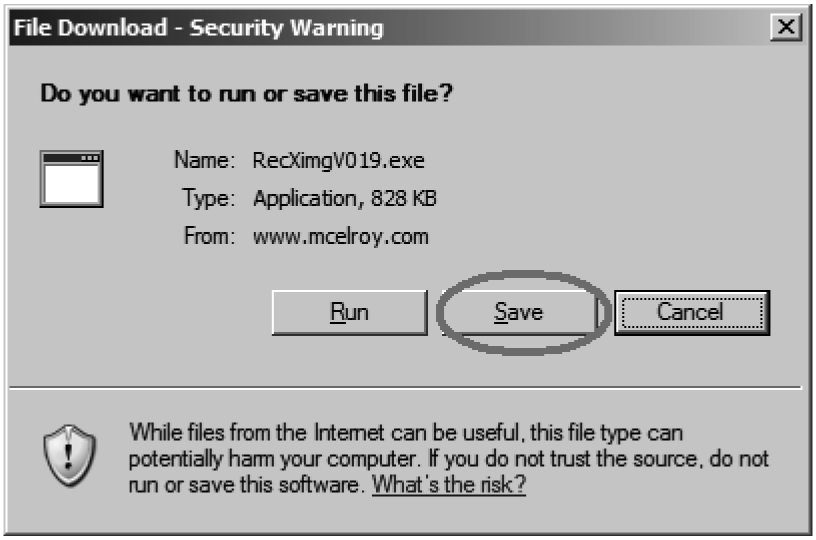
Please identify the correct TDS

Recon X (new)
[Power button on left side]
+ Recon X image v0.19 (exe)
+ Instructions (PDF)

PH03348-10-24-06

Getting the Setup Image File from the Internet (cont'd)

Click **Save**:



File Download - Security Warning

Do you want to run or save this file?

Name: RecXimgV019.exe

Type: Application, 828 KB

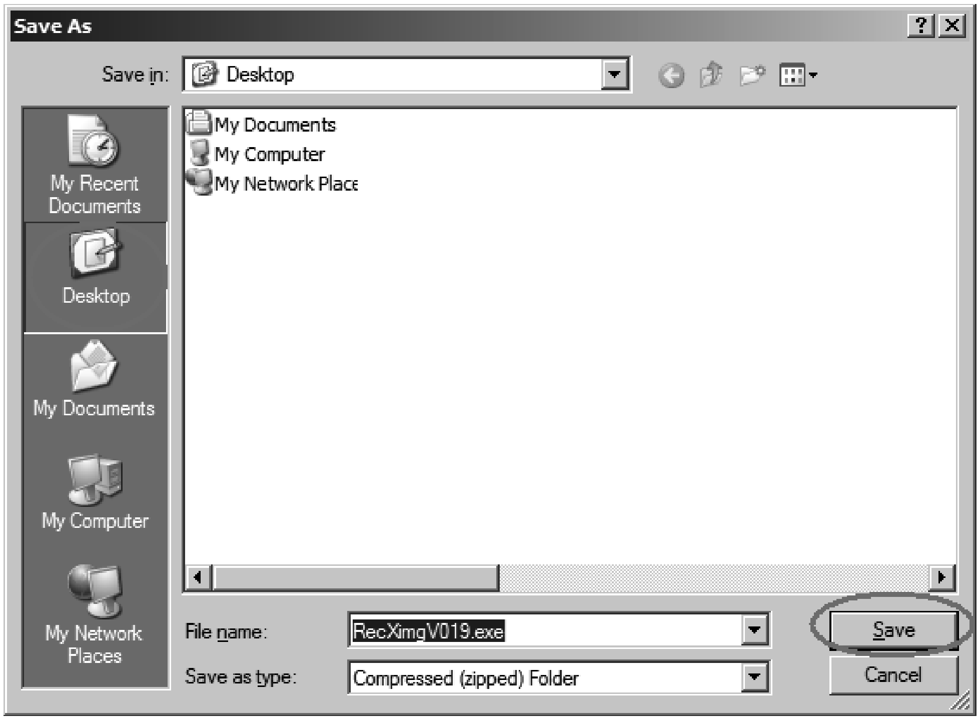
From: www.mcelroy.com

Run
Save
Cancel

While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

PH03350-10-24-06

Choose to save it on your Desktop and click **Save**:



Save As

Save in: Desktop

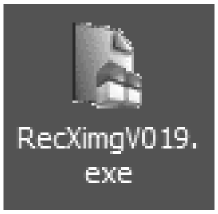
File name: RecXimgV019.exe

Save as type: Compressed (zipped) Folder

My Documents
My Computer
My Network Place
My Recent Documents
Desktop
My Documents
My Computer
My Network Places
Save
Cancel

PH03349-10-24-06

After downloading, you should see an icon on your desktop:

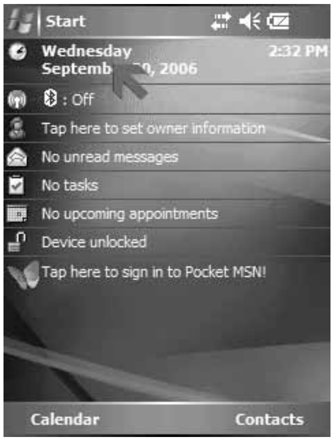


RecXimgV019.
exe

PH03351-10-24-06

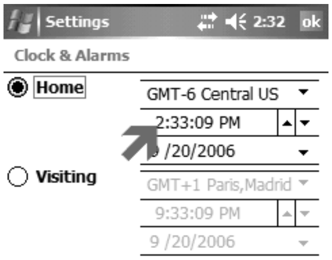
Set Recon X Date and Time

NOTE: Tap **Start > Today** to reveal the Today screen.
Tap the **time and date** field.


Start
Wednesday
Septemb , 2006
2:32 PM
: Off
Tap here to set owner information
No unread messages
No tasks
No upcoming appointments
Device unlocked
Tap here to sign in to Pocket MSN!
Calendar
Contacts

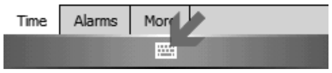
PH03352-10-24-06

Tap on the **keyboard symbol** to bring up the on screen keyboard.

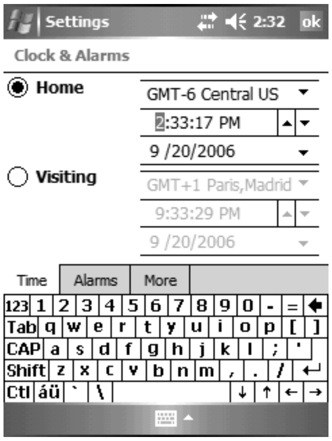

Settings
2:32
ok
Clock & Alarms

● Home GMT-6 Central US 2:33:09 PM /20/2006
○ Visiting GMT+1 Paris,Madrid 9:33:09 PM 9 /20/2006

PH03353-10-24-06


Time
Alarms
More

Tap the individual time and date fields to change them. Finally, tap **OK** (top right corner of screen) and tap **Yes** to save changes.


Settings
2:32
ok
Clock & Alarms
Time
Alarms
More
123 1 2 3 4 5 6 7 8 9 0 - =
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . /
Ctl áü ` \

● Home GMT-6 Central US 2:33:17 PM 9 /20/2006
○ Visiting GMT+1 Paris,Madrid 9:33:29 PM 9 /20/2006

PH03354-10-24-06

Transferring the Image File (RecXimg.exe) onto the Recon X (factory setting)

The Recon X is environmentally sealed, therefore, programming and setting up the Recon X is through its USB port using Microsoft ActiveSync 4.2 or higher.

NOTE: Please make sure Microsoft ActiveSync is installed on your Desktop or Notebook PC before proceeding. This is a one-time-only setup on the Desktop PC. ActiveSync can be downloaded from:
http://www.microsoft.com/windowsmobile/downloads/activesync42.mspx

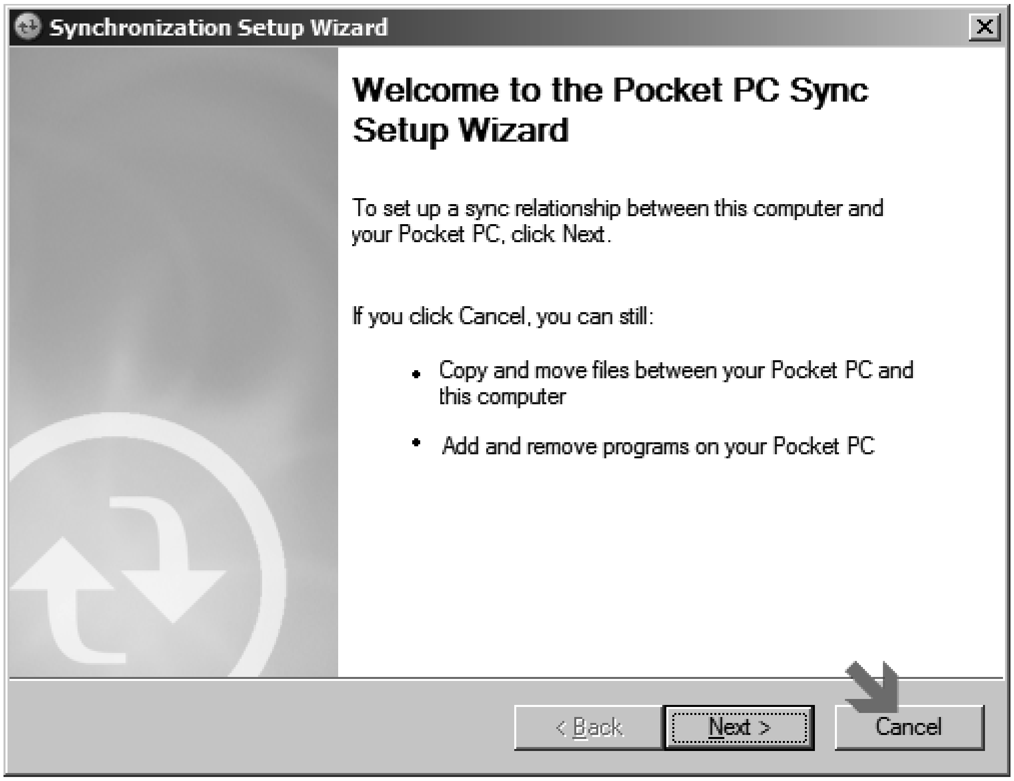
With ActiveSync installed, follow these instructions to setup the Recon X:

Make sure the Recon X is fully charged or have the AC adapter plugged in during the setup. Turn on the Recon X.
For brand new units from the factory, follow the on screen setup instruction. On the Password screen, tap the on screen **Skip** button since password protection is not required.

NOTE: If returning to factory default setting is desired, hold the power button down for 5 seconds, and on hearing the beep, press both the **OK** and Windows (⊞) buttons simultaneously.
NOTICE: this will erase all programs and data.

Connect the USB cable between the PC and the Recon X. Wait for the PC to find the Recon X hardware and allow time for the ActiveSync program to load.

ActiveSync displays the Synchronization Setup Wizard. Click **Cancel**.



Synchronization Setup Wizard

Welcome to the Pocket PC Sync Setup Wizard

To set up a sync relationship between this computer and your Pocket PC, click Next.

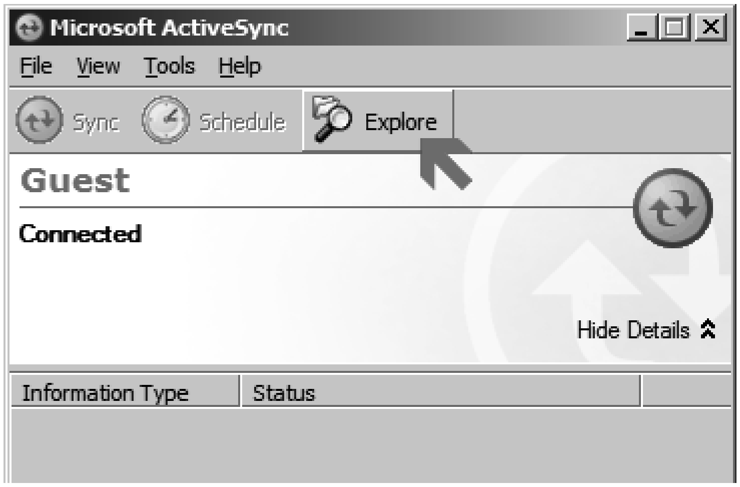
If you click Cancel, you can still:

- Copy and move files between your Pocket PC and this computer
- Add and remove programs on your Pocket PC

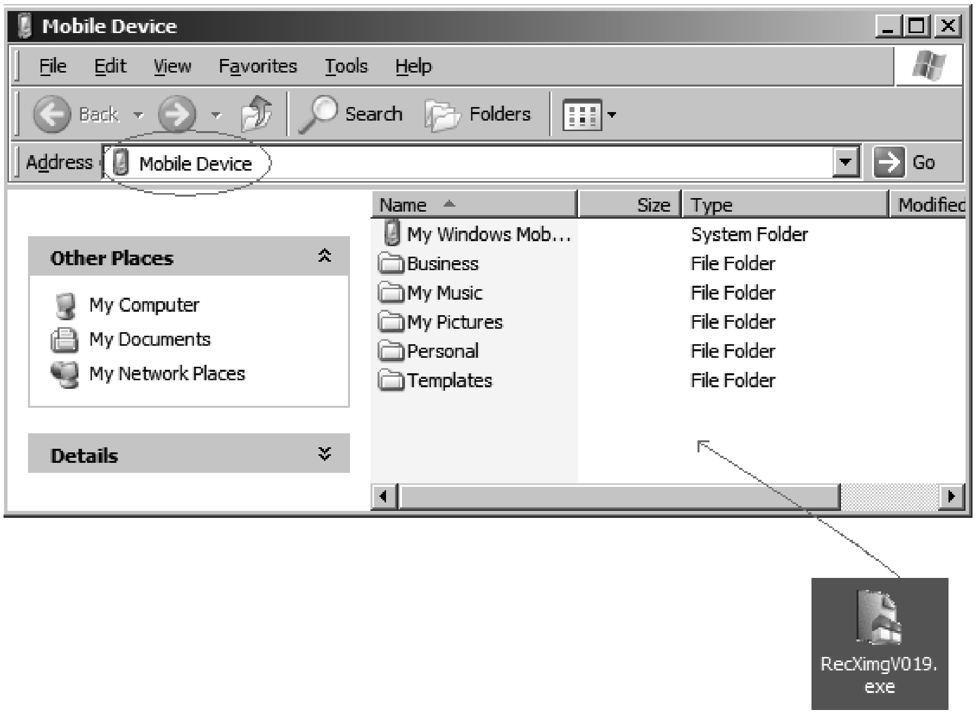
PH03355-10-24-06

Transferring the Image File (RecXimg.exe) onto the Recon X (factory setting) (cont'd)

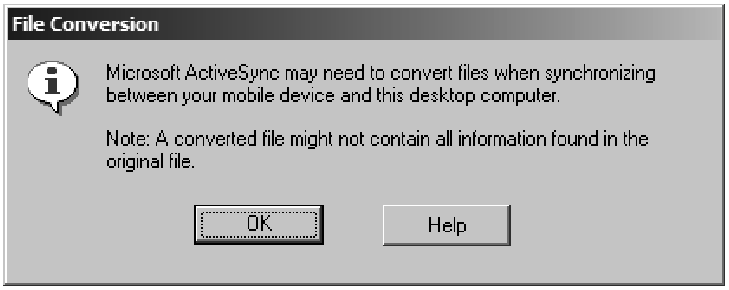
Microsoft ActiveSync activates and is connected to the Recon X as below. Click **Explore.**


Microsoft ActiveSync
File View Tools Help
Sync
Schedule
Explore
Guest
Connected
Hide Details
Information Type
Status
PH03356-10-24-06

An Explorer window appears showing the folder below.
On the Desktop PC, drag the **RecXimg.exe** file icon from the desktop to the Mobile Device folder as shown.


Mobile Device
File Edit View Favorites Tools Help
Back
Search
Folders
Address
Mobile Device
Go
Other Places
My Computer
My Documents
My Network Places
Details
Name
Size
Type
Modified
My Windows Mob…
System Folder
Business
File Folder
My Music
File Folder
My Pictures
File Folder
Personal
File Folder
Templates
File Folder
RecXimgV019.exe
PH03357-10-24-06

Click **OK** on the message below:

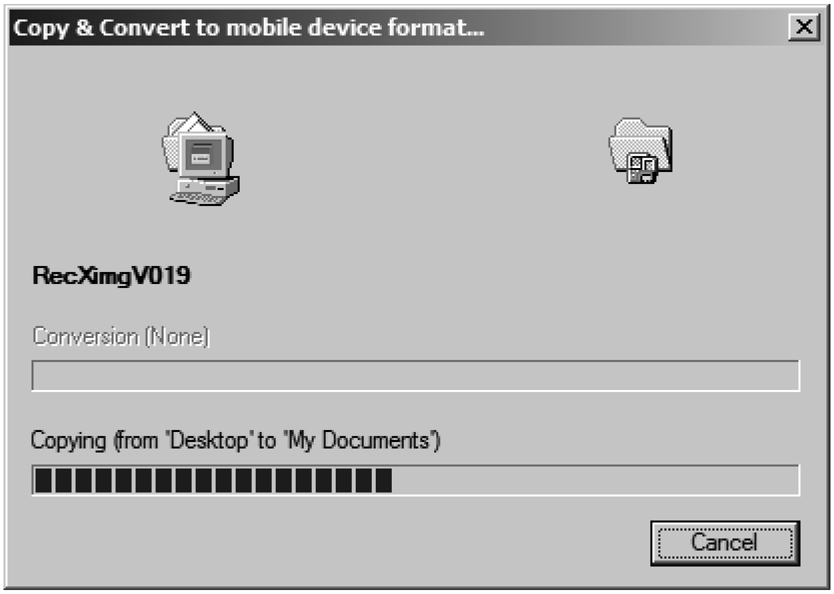

File Conversion
OK
Help
PH03358-10-24-06

Microsoft ActiveSync may need to convert files when synchronizing between your mobile device and this desktop computer.

Note: A converted file might not contain all information found in the original file.

Transferring the Image File (RecXimg.exe) onto the Recon X (factory setting) (cont'd)

Wait for the files to be copied.



Copy & Convert to mobile device format...

RecXimgV019

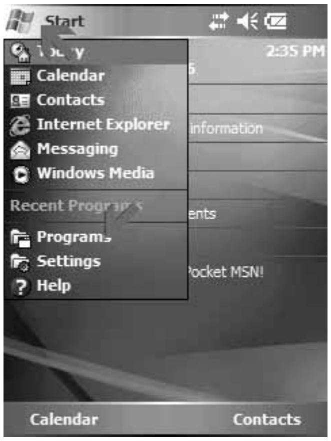
Conversion (None)

Copying (from "Desktop" to "My Documents")

PH03359-10-24-06

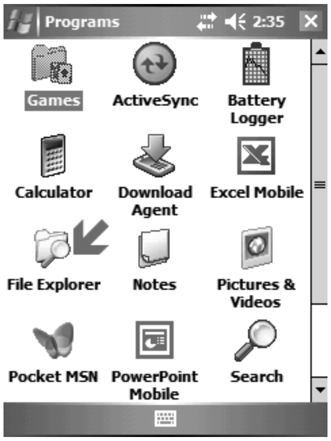
Bring up File Explorer to locate the installation program:

Tap **Start** then **Programs**.


Start
2:35 PM
Calendar
Contacts
Internet Explorer
Messaging
Windows Media
Recent Programs
Programs
Settings
Help
Calendar
Contacts

PH03360-10-24-06

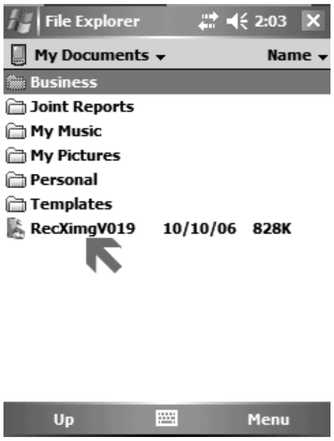
Tap **File Explorer**.


Programs
2:35
Games
ActiveSync
Battery Logger
Calculator
Download Agent
Excel Mobile
File Explorer
Notes
Pictures & Videos
Pocket MSN
PowerPoint Mobile
Search

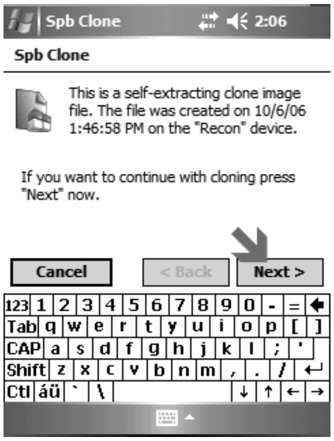
PH03361-10-24-06

Transferring the Image File (RecXimg.exe) onto the Recon X (factory setting) (cont'd)

In Folder Explorer, navigate to the installation program.
Tap **RecXimg**.
Tap **Next** to Continue.


File Explorer 2:03
My Documents
Name
Business
Joint Reports
My Music
My Pictures
Personal
Templates
RecXimgV019 10/10/06 828K
Up
Menu

PH03362-10-24-06

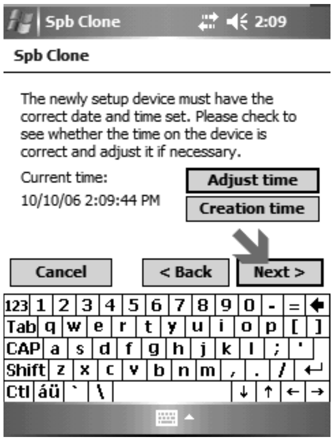

Spb Clone 2:06
Spb Clone
Cancel
< Back
Next >
123 1 2 3 4 5 6 7 8 9 0 - =
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . /
Ctl áü ` \

This is a self-extracting clone image file. The file was created on 10/6/06 1:46:58 PM on the "Recon" device.

If you want to continue with cloning press "Next" now.

PH03363-10-24-06

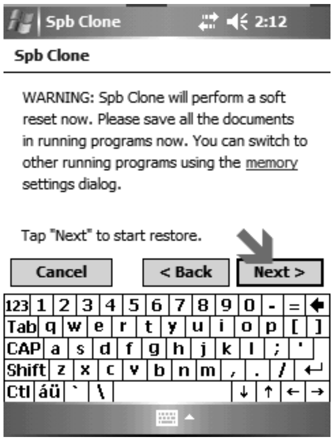
Follow the on screen instructions to install the image on the Recon X:
Check to make sure the date and time are correct. If adjustment is needed, tap **Adjust time**. Otherwise, tap **Next**.
Tap **Next** to start restoring image.


Spb Clone 2:09
Spb Clone
Adjust time
Creation time
Cancel
< Back
Next >
123 1 2 3 4 5 6 7 8 9 0 - =
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . /
Ctl áü ` \

The newly setup device must have the correct date and time set. Please check to see whether the time on the device is correct and adjust it if necessary.

Current time:
10/10/06 2:09:44 PM

PH03364-10-24-06

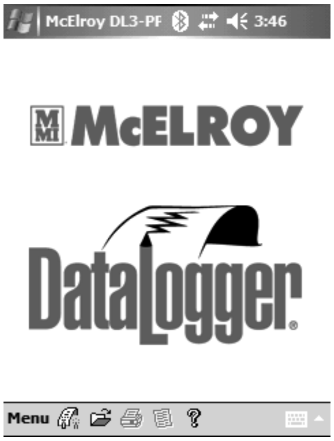

Spb Clone 2:12
Spb Clone
Cancel
< Back
Next >
123 1 2 3 4 5 6 7 8 9 0 - =
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . /
Ctl áü ` \

WARNING: Spb Clone will perform a soft reset now. Please save all the documents in running programs now. You can switch to other running programs using the memory settings dialog.

Tap "Next" to start restore.

PH03365-10-24-06

The Recon X will perform a soft reset and begin the restore process. The screen may turn dark for 15 seconds. Watch the screen for progress. The entire process takes about a few minutes.
At the end of a successful image restore, the McElroy DataLogger® screen is displayed:

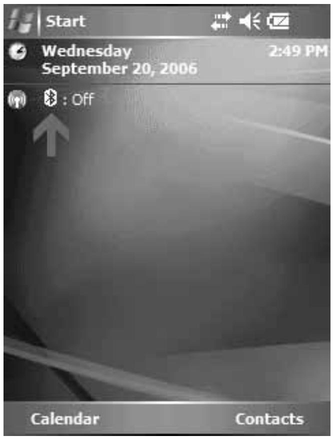

McElroy DL3-PF 3:46
McELROY
DataLogger®
Menu

PH03366-10-24-06

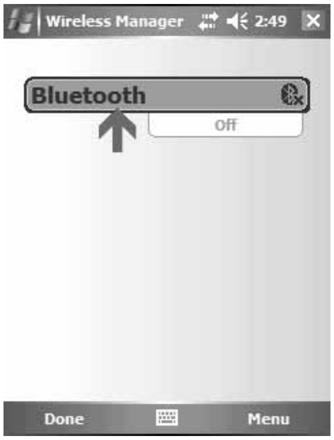
TX02674-10-31-06

Setting up the Bluetooth® Radio

Go to the Today screen by tapping **Start > Today**.
At the Today screen tap the **Bluetooth** icon
Tap **Bluetooth** to turn it on

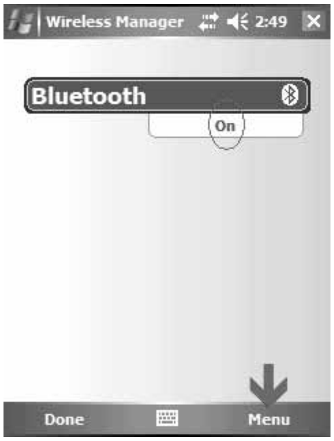

Start
Wednesday
September 20, 2006
2:49 PM
: Off
Calendar
Contacts

PH03367-10-24-06

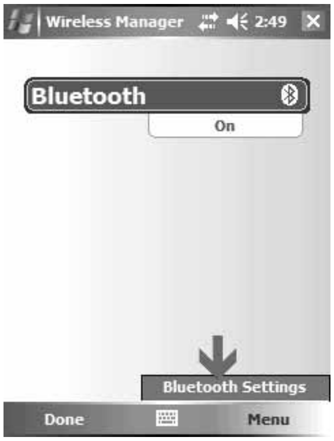

Wireless Manager
2:49
Bluetooth
Off
Done
Menu

PH03368-10-24-06

Setup Bluetooth
Make sure Bluetooth is **On** then tap **Menu**
Tap **Bluetooth Settings**

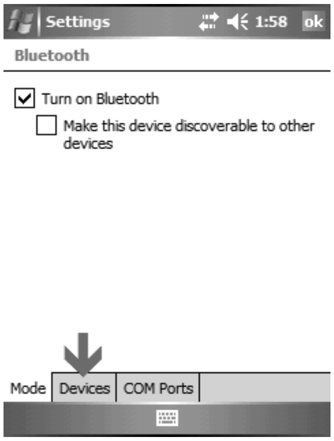

Wireless Manager
2:49
Bluetooth
On
Done
Menu

PH03369-10-24-06


Wireless Manager
2:49
Bluetooth
On
Bluetooth Settings
Done
Menu

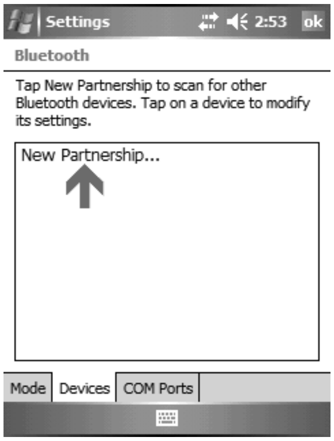
PH03370-10-24-06

Select Bluetooth device. (DataLogger must be turned on for this step)
Tap **Devices**
Turn on DataLogger and tap **New Partnership**


Settings
1:58
ok
Bluetooth
Mode
Devices
COM Ports

☑ Turn on Bluetooth
☐ Make this device discoverable to other devices

PH03371-10-24-06

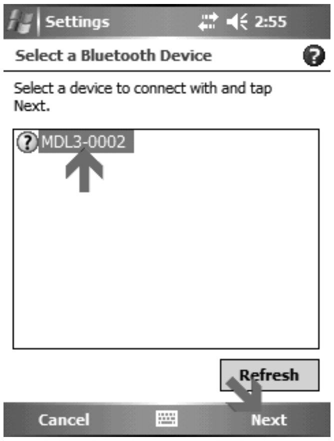

Settings
2:53
ok
Bluetooth
New Partnership...
Mode
Devices
COM Ports

Tap New Partnership to scan for other Bluetooth devices. Tap on a device to modify its settings.

PH03372-10-24-06

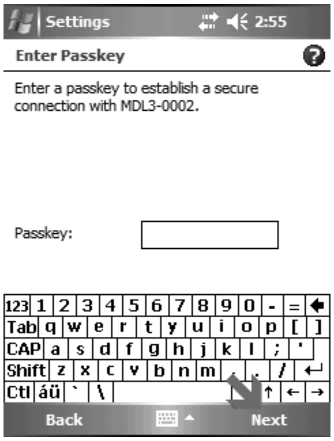
Setting up the Bluetooth® Radio (cont'd)

Wait for Bluetooth devices to be found, and then select it
Select the corresponding DataLogger MDL3 and then tap **Next**
Tap **Next**


Settings
2:55
Select a Bluetooth Device
MDL3-0002
Refresh
Cancel
Next

Select a device to connect with and tap Next.

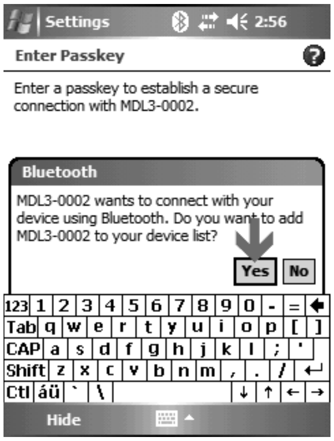
PH03373-10-24-06


Settings
2:55
Enter Passkey
Passkey:
Back
Next

Enter a passkey to establish a secure connection with MDL3-0002.

PH03374-10-24-06

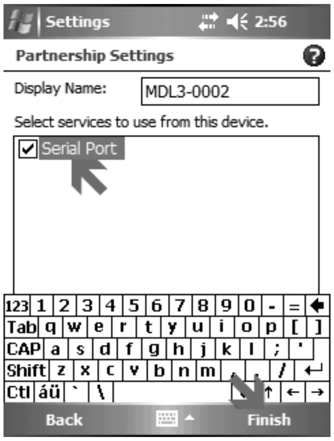
Accept partnership and service.
Tap **Yes** to accept partnership.


Settings
2:56
Enter Passkey
Bluetooth
Yes
No
Hide

Enter a passkey to establish a secure connection with MDL3-0002.

MDL3-0002 wants to connect with your device using Bluetooth. Do you want to add MDL3-0002 to your device list?

PH03375-10-24-06


Settings
2:56
Partnership Settings
Back
Finish

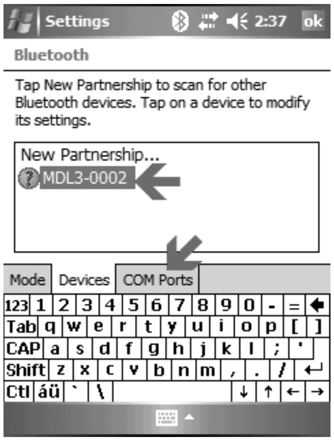
Display Name: MDL3-0002

Select services to use from this device.

☑ Serial Port

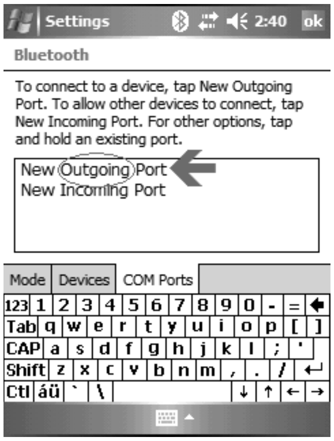
PH03376-10-24-06

Setup COM port
Select MDL3 and tap **COM Ports**
Tap on **New Outgoing Port**


Settings
2:37
ok
Bluetooth
New Partnership...
MDL3-0002
Mode
Devices
COM Ports

Tap New Partnership to scan for other Bluetooth devices. Tap on a device to modify its settings.

PH03377-10-24-06

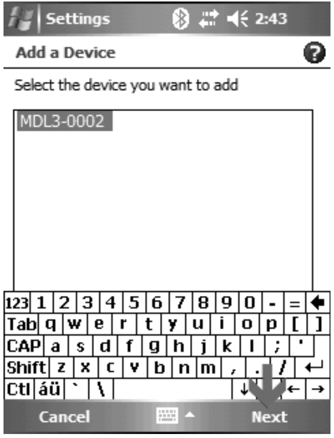

Settings
2:40
ok
Bluetooth
New Outgoing Port
New Incoming Port
Mode
Devices
COM Ports

To connect to a device, tap New Outgoing Port. To allow other devices to connect, tap New Incoming Port. For other options, tap and hold an existing port.

PH03378-10-24-06

Setting up the Bluetooth® Radio (cont'd)

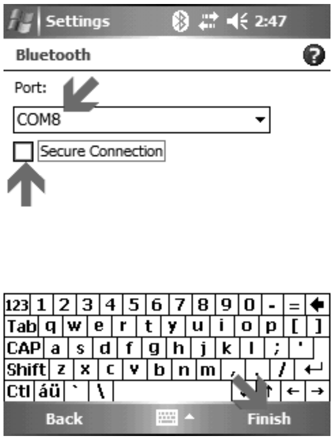
Bind device to COM port
Tap **Next**
Select **COM8**, uncheck **Secure Connection**, and tap **Finish**.


Settings
2:43
Add a Device
123 1 2 3 4 5 6 7 8 9 0 - = ←
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . / ↵
Ctl áü ` \ ↓ ↑ ← →
Cancel
Next

Select the device you want to add

MDL3-0002

PH03379-10-24-06

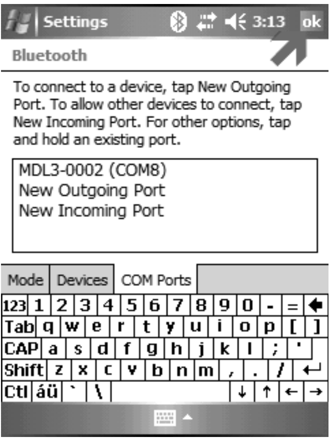

Settings
2:47
Bluetooth
123 1 2 3 4 5 6 7 8 9 0 - = ←
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . / ↵
Ctl áü ` \ ↓ ↑ ← →
Back
Finish

Port: COM8

☐ Secure Connection

PH03380-10-24-06

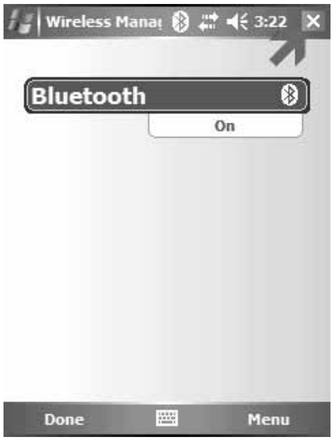
Confirm Bluetooth selection
Tap **OK** to complete Bluetooth setup
Tap **X** to exit Bluetooth setting


Settings
3:13
ok
Bluetooth
Mode
Devices
COM Ports
123 1 2 3 4 5 6 7 8 9 0 - = ←
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . / ↵
Ctl áü ` \ ↓ ↑ ← →

To connect to a device, tap New Outgoing Port. To allow other devices to connect, tap New Incoming Port. For other options, tap and hold an existing port.

MDL3-0002 (COM8)
New Outgoing Port
New Incoming Port

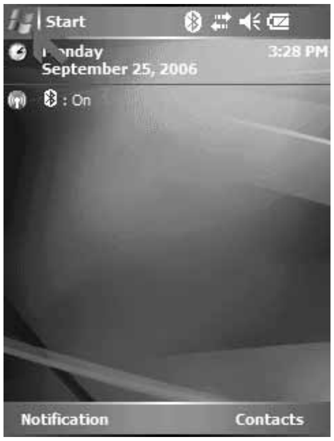
PH03381-10-24-06


Wireless Manag
3:22
✕
Done
Menu

Bluetooth: On

PH03382-10-24-06

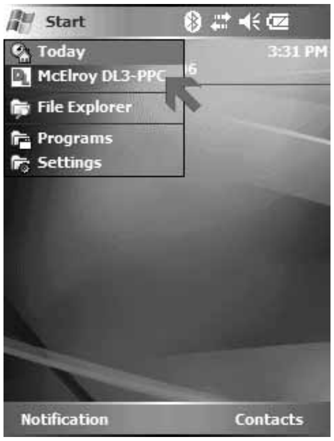
Access McElroy DL3-PPC program
Tap **Start**
Tap **McElroy DL3-PPC**


Start
Notification
Contacts

nday
September 25, 2006
3:28 PM

: On

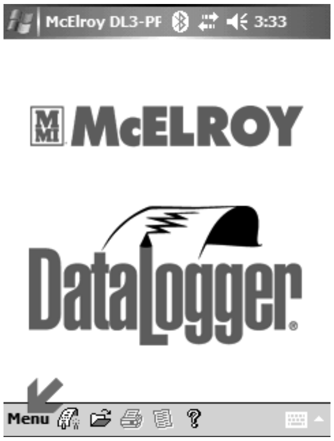
PH03383-10-24-06


Start
Today
McElroy DL3-PPC
File Explorer
Programs
Settings
3:31 PM
Notification
Contacts

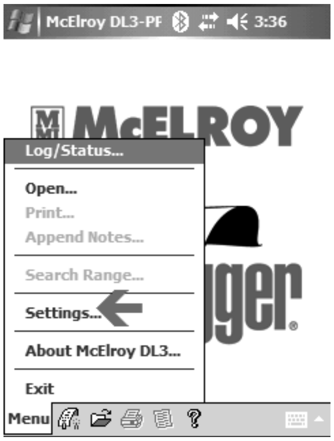
PH03384-10-24-06

Setting up the Bluetooth® Radio (cont'd)

Setup McElroy DL3-PPC
Tap **Menu**
Tap **Settings…**

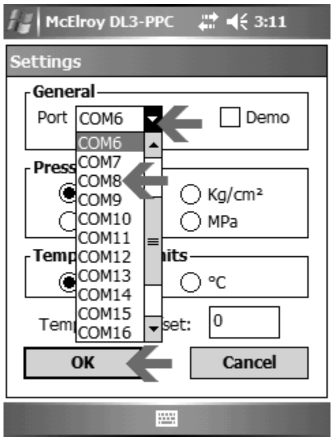

McElroy DL3-PF 3:33
McELROY
DataLogger®
Menu

PH03385-10-24-06

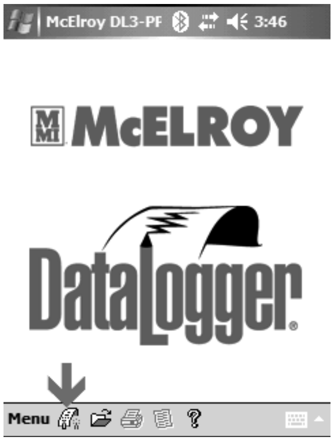

McElroy DL3-PF 3:36
Log/Status...
Open...
Print...
Append Notes...
Search Range...
Settings...
About McElroy DL3...
Exit
Menu

PH03386-10-24-06

Setup program COM port
Select **COM8** and tap **OK**
Tap **Log/Status** icon

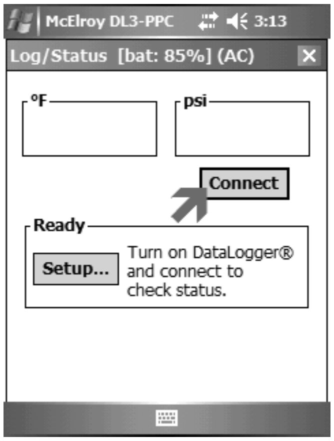

McElroy DL3-PPC 3:11
Settings
General
Port COM6
Demo
COM6
COM7
COM8
COM9
COM10
COM11
COM12
COM13
COM14
COM15
COM16
Press
Kg/cm²
MPa
Temp
its
°C
Tem
set: 0
OK
Cancel

PH03387-10-24-06


McElroy DL3-PF 3:46
McELROY
DataLogger®
Menu

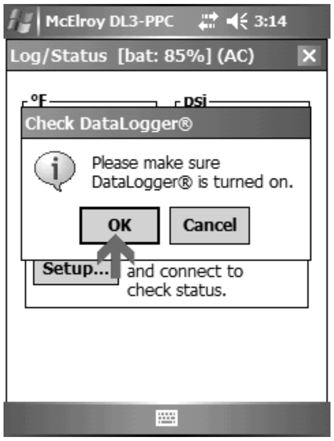
PH03388-10-24-06

Connect to DataLogger®
Tap **Connect**
Turn on DataLogger and then tap **OK**


McElroy DL3-PPC 3:13
Log/Status [bat: 85%] (AC)
°F
psi
Connect
Ready
Setup...

Turn on DataLogger® and connect to check status.

PH03389-10-24-06


McElroy DL3-PPC 3:14
Log/Status [bat: 85%] (AC)
°F
psi
Check DataLogger®
OK
Cancel
Setup...

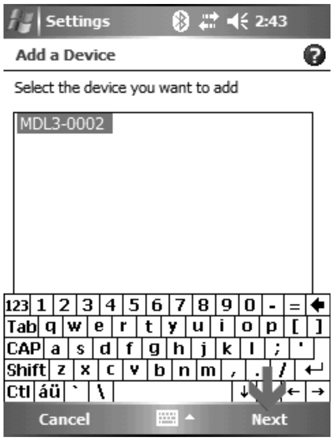
Please make sure DataLogger® is turned on.

and connect to check status.

PH03390-10-24-06

Setting up the Bluetooth® Radio (cont’d)

Verify connection and exit program
Verify that connection is established by checking pressure and temperature readings. Finally, tap **Disconn** and **X** to exit.


Settings
2:43
Add a Device
Select the device you want to add
MDL3-0002
123 1 2 3 4 5 6 7 8 9 0 - =
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . /
Ctl áü ` \
Cancel
Next

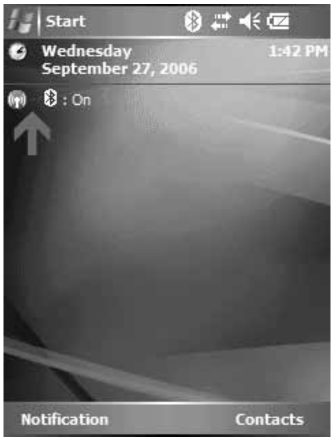
PH03379-10-24-06

TX02675-10-31-06

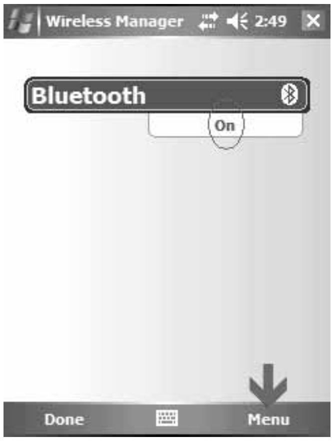
Installing Printer Port (optional)

An Extech thermal printer model S2500THS can be used with the McElroy DL3 DataLogger® via Bluetooth® interface.

Following are instructions for setting up the Recon X for Bluetooth printing.
Get to the Today screen by tapping **Start > Today**:
Access Bluetooth Menu
Tap the **Bluetooth** icon
Make sure Bluetooth is **On**. If not, tap on **Bluetooth** and then tap **Menu**


Start
Wednesday
September 27, 2006
1:42 PM
: On
Notification
Contacts

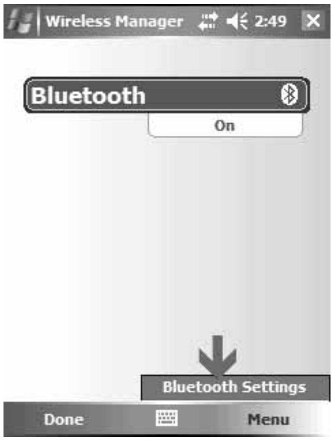
PH03391-10-24-06


Wireless Manager
2:49
Bluetooth
On
Done
Menu

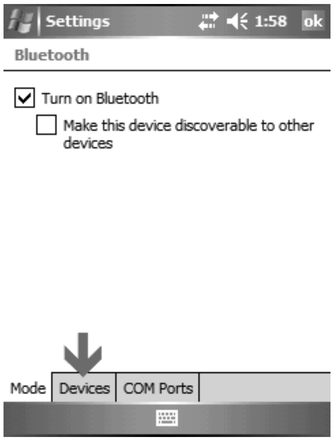
PH03392-10-24-06

Installing Printer Port (optional) (cont'd)

Access Bluetooth Settings
Tap **Bluetooth Settings**
Tap **Devices**


Wireless Manager 2:49
Bluetooth
On
Bluetooth Settings
Done
Menu

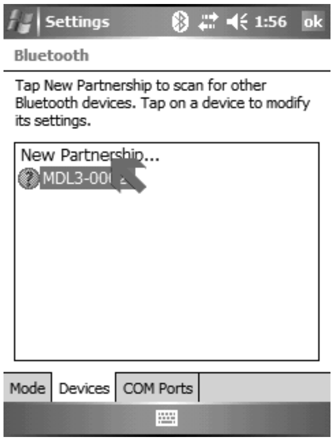
PH03393-10-24-06


Settings 1:58 ok
Bluetooth
Mode
Devices
COM Ports

☑ Turn on Bluetooth
☐ Make this device discoverable to other devices

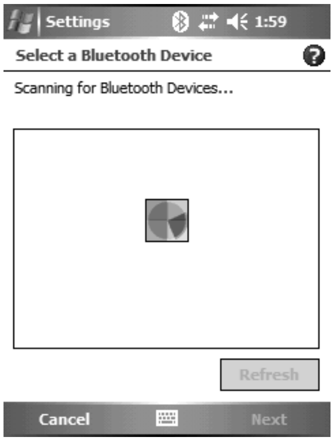
PH03394-10-24-06

Prepare printer for partnership. Plug in printer power supply to make sure printer stays on.
Turn on printer, then tap **New Partnership...**
Wait for scanning of Bluetooth devices…


Settings 1:56 ok
Bluetooth
New Partnership...
MDL3-000
Mode
Devices
COM Ports

Tap New Partnership to scan for other Bluetooth devices. Tap on a device to modify its settings.

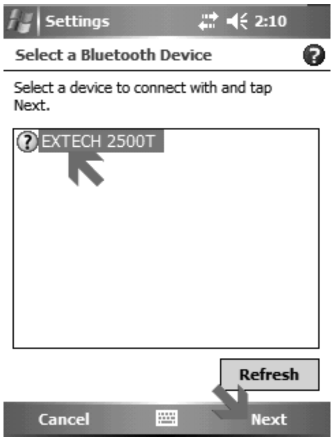
PH03395-10-24-06


Settings 1:59
Select a Bluetooth Device
Refresh
Cancel
Next

Scanning for Bluetooth Devices...

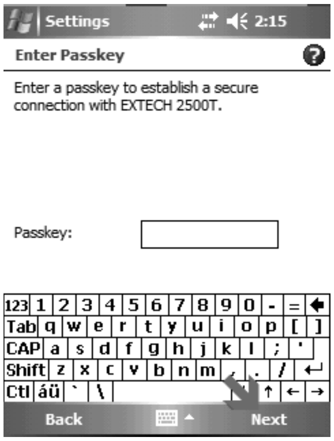
PH03396-10-24-06

Setup partnership with printer
Tap on the **Extech printer** icon and then tap **Next**
Tap **Next**. You may be prompted several times for passkey, but just tap **Next**.


Settings 2:10
Select a Bluetooth Device
EXTECH 2500T
Refresh
Cancel
Next

Select a device to connect with and tap Next.

PH03397-10-24-06


Settings 2:15
Enter Passkey
123 1 2 3 4 5 6 7 8 9 0 - =
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . /
Ctl áü ` \
Back
Next

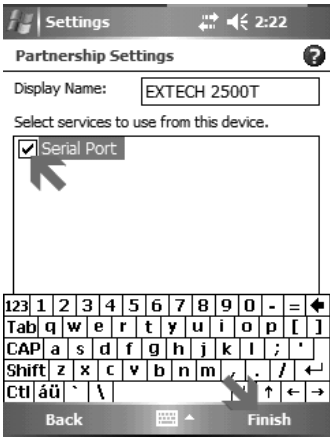
Enter a passkey to establish a secure connection with EXTECH 2500T.

Passkey:

PH03398-10-24-06

Installing Printer Port (optional) (cont'd)

Select serial port service
Tap **Serial Port** to select service and then tap **Finish**.
If keyboard is displayed, tap icon to close it.

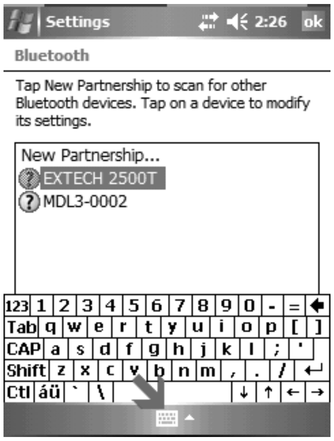

Settings 2:22
Partnership Settings
123 1 2 3 4 5 6 7 8 9 0 - =
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . /
Ctl áü ` \ ↓ ↑ ← →
Back
Finish

Display Name: EXTECH 2500T

Select services to use from this device.

☑ Serial Port

PH03399-10-24-06

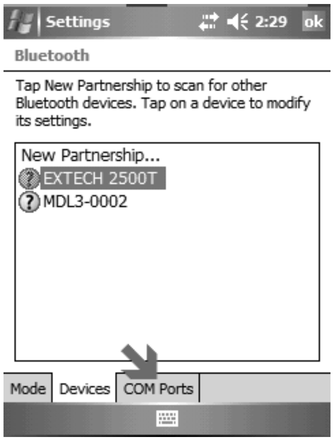

Settings 2:26 ok
Bluetooth
123 1 2 3 4 5 6 7 8 9 0 - =
Tab q w e r t y u i o p [ ]
CAP a s d f g h j k l ; '
Shift z x c v b n m , . /
Ctl áü ` \ ↓ ↑ ← →

Tap New Partnership to scan for other Bluetooth devices. Tap on a device to modify its settings.

New Partnership...
EXTECH 2500T
MDL3-0002

PH03400-10-24-06

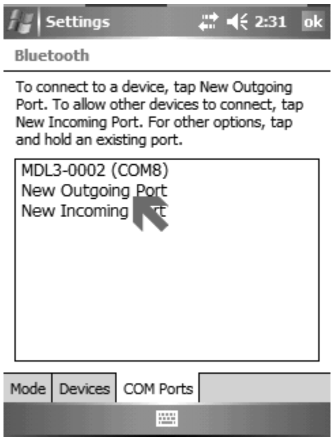
Prepare to setup COM port
Tap **COM Ports**
Tap **New Outgoing Port…**


Settings 2:29 ok
Bluetooth
Mode
Devices
COM Ports

Tap New Partnership to scan for other Bluetooth devices. Tap on a device to modify its settings.

New Partnership...
EXTECH 2500T
MDL3-0002

PH03401-10-24-06

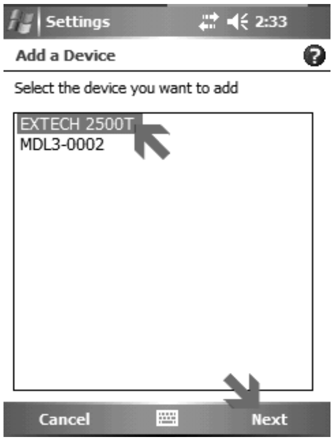

Settings 2:31 ok
Bluetooth
Mode
Devices
COM Ports

To connect to a device, tap New Outgoing Port. To allow other devices to connect, tap New Incoming Port. For other options, tap and hold an existing port.

MDL3-0002 (COM8)
New Outgoing Port
New Incoming Port

PH03402-10-24-06

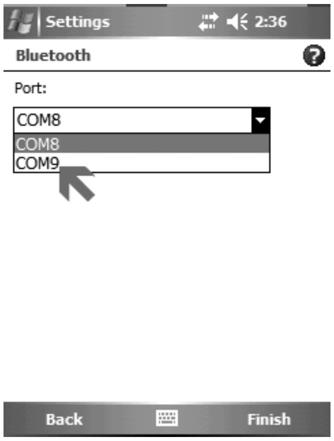
Setup COM port
Make sure EXTECH 2500T is selected then tap **Next**
Select **COM9**


Settings 2:33
Add a Device
Cancel
Next

Select the device you want to add

EXTECH 2500T
MDL3-0002

PH03403-10-24-06

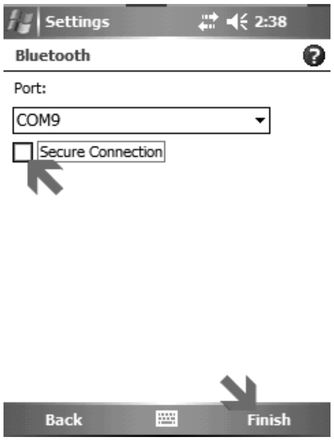

Settings 2:36
Bluetooth
Back
Finish

Port: COM8
COM8
COM9

PH03404-10-24-06

Installing Printer Port (optional) (cont'd)

Complete printer COM port setup
Uncheck **Secure Connection** then tap **Finish**.
Verify COM assignments then tap **OK**

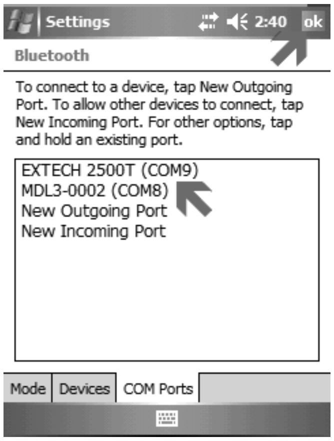

Settings
2:38
Back
Finish

Bluetooth

Port: COM9

☐ Secure Connection

PH03406-10-24-06


Settings
2:40
ok
Mode
Devices
COM Ports

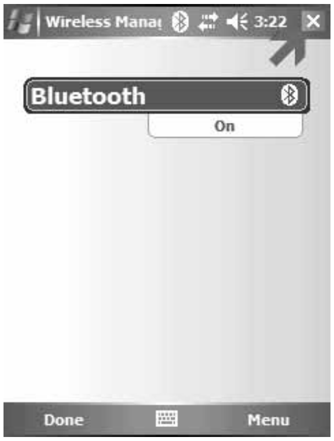
Bluetooth

To connect to a device, tap New Outgoing Port. To allow other devices to connect, tap New Incoming Port. For other options, tap and hold an existing port.

EXTECH 2500T (COM9)
MDL3-0002 (COM8)
New Outgoing Port
New Incoming Port

PH03407-10-24-06

Exit Bluetooth settings
Tap **X** to exit Bluetooth setting


Wireless Manaɡ
3:22
✕
Bluetooth
On
Done
Menu

PH03405-10-24-06

TX02676-10-31-06

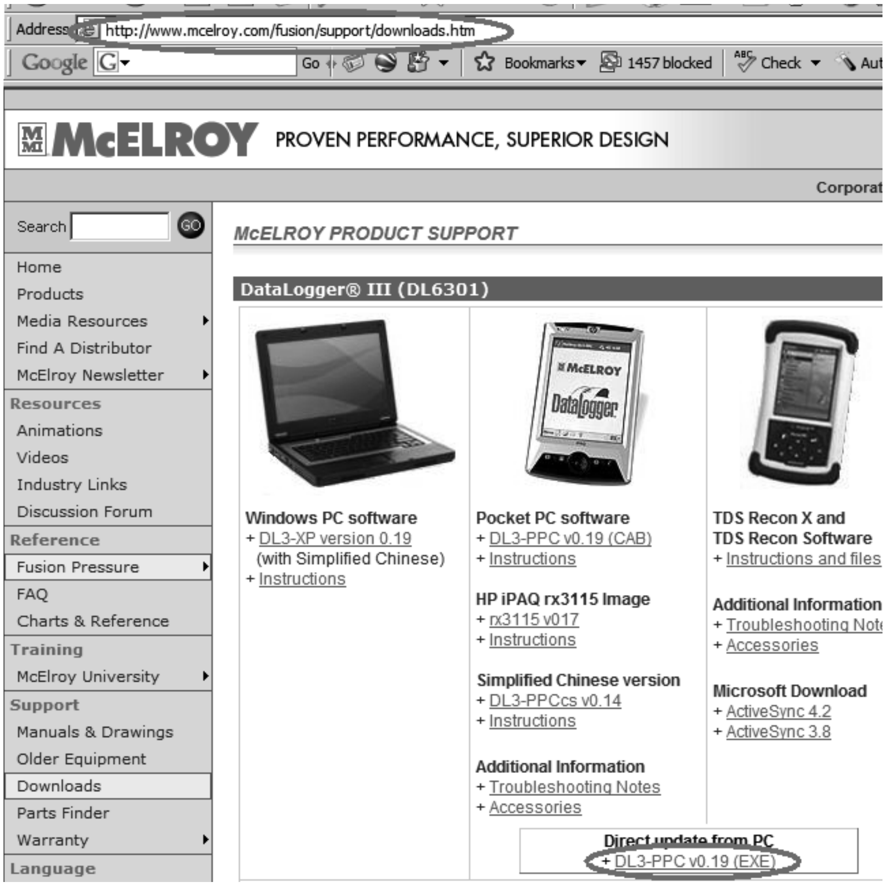
Software Updates

This section provides instructions for applying software update. This procedure will not cause loss of joint reports, however, it is always advisable to backup joint reports on a regular basis to a desktop PC hard drive and other media.

On the Recon X, make sure the DL3-PPC program is not running, by tapping **Start > McElroy > DL3-PPC**, then **Menu** > **Exit**.

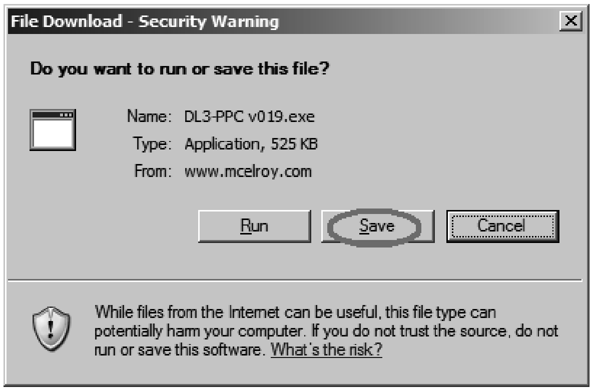
Updates can be downloaded from: **http://www.mcelroy.com/fusion/support/downloads.htm**

Click on **http://www.mcelroy.com/fusion/support/downloads.htm** for the download page and click **DL3-PPC**:


Address http://www.mcelroy.com/fusion/support/downloads.htm
Google Go Bookmarks 1457 blocked Check Aut
McELROY PROVEN PERFORMANCE, SUPERIOR DESIGN
Corporat
Search GO
Home
Products
Media Resources
Find A Distributor
McElroy Newsletter
Resources
Animations
Videos
Industry Links
Discussion Forum
Reference
Fusion Pressure
FAQ
Charts & Reference
Training
McElroy University
Support
Manuals & Drawings
Older Equipment
Downloads
Parts Finder
Warranty
Language
McELROY PRODUCT SUPPORT
DataLogger® III (DL6301)
Windows PC software
+ DL3-XP version 0.19 (with Simplified Chinese)
+ Instructions
Pocket PC software
+ DL3-PPC v0.19 (CAB)
+ Instructions
HP iPAQ rx3115 Image
+ rx3115 v017
+ Instructions
Simplified Chinese version
+ DL3-PPCcs v0.14
+ Instructions
Additional Information
+ Troubleshooting Notes
+ Accessories
TDS Recon X and TDS Recon Software
+ Instructions and files
Additional Information
+ Troubleshooting Note
+ Accessories
Microsoft Download
+ ActiveSync 4.2
+ ActiveSync 3.8
Direct update from PC
+ DL3-PPC v0.19 (EXE)

PH03408-10-24-06

Click **Save**.


File Download - Security Warning
Run
Save
Cancel

Do you want to run or save this file?

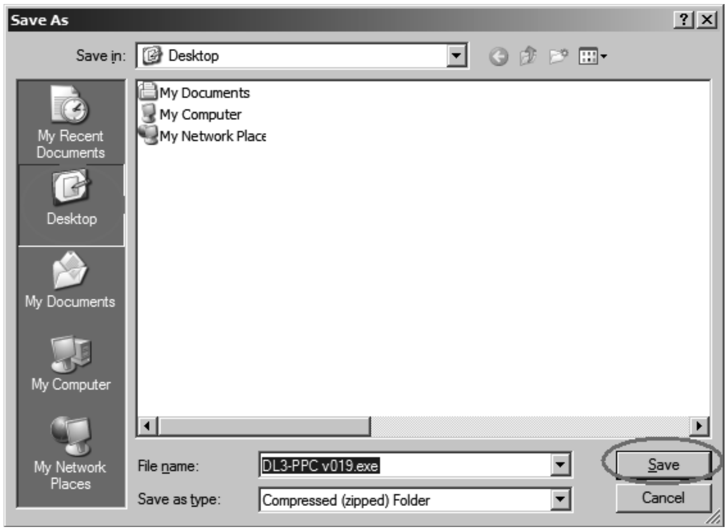
Name: DL3-PPC v019.exe
Type: Application, 525 KB
From: www.mcelroy.com

While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

PH03409-10-24-06

Software Updates (cont'd)

Choose to save the file to desktop.


Save As
My Recent Documents
Desktop
My Documents
My Computer
My Network Places
My Documents
My Computer
My Network Place
Save
Cancel

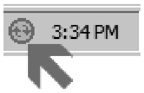
Save in: Desktop

File name: DL3-PPC v019.exe

Save as type: Compressed (zipped) Folder

PH03407-10-24-06

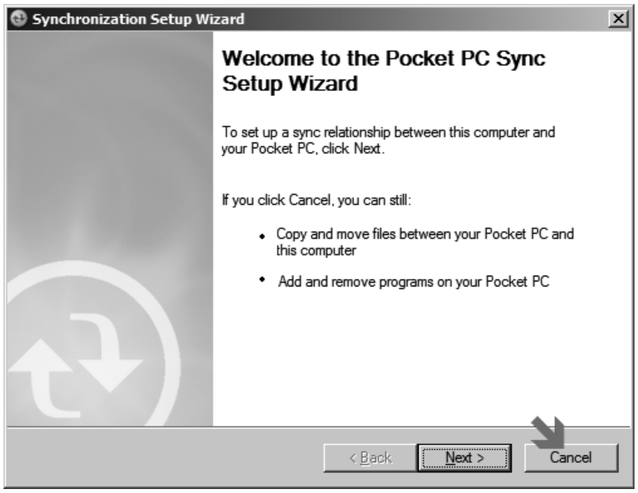
Make sure that ActiveSync is installed on your desktop computer before proceeding. If ActiveSync is installed, an icon will appear at the bottom of the desktop computer screen in the system tray to the left of the clock:



PH03405-10-24-06

NOTE: If ActiveSync is not installed, please refer to the first part of section III (Transferring the image file…) for installation instructions.

Connect USB cable between Recon X and desktop computer
ActiveSync displays the Synchronization Setup Wizard. Click **Cancel**.


Synchronization Setup Wizard
< Back
Next >
Cancel

Welcome to the Pocket PC Sync Setup Wizard

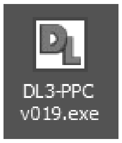
To set up a sync relationship between this computer and your Pocket PC, click Next.

If you click Cancel, you can still:

- Copy and move files between your Pocket PC and this computer
- Add and remove programs on your Pocket PC

PH03355-10-24-06

Once ActiveSync is connected, go to the PC desktop and double click on the setup icon:


DL3-PPC
v019.exe

PH03412-10-24-06

Follow the prompts on the PC screen and the Recon X screen for further details. Proceed with all default settings when asked, for example the folder in which to install to, and also overwrite existing program on the Recon X. TX02677-10-31-06

Set-up for Rugged Pocket PC (TDS Recon)

Special Instruction for Rugged Pocket PC (TDS Recon)

It is recommended that you install Microsoft ActiveSync on your Desktop or Notebook PC to use with your TDS Recon Pocket PC. Microsoft ActiveSync is used to copy joint reports to a PC from the TDS Recon built-in storage.

Please refer to the accompanying Microsoft and TDS documentation for installing and using Microsoft ActiveSync software.

The TDS Recon runs the same DL3-PPC program with minor differences described below:

1) Reset the Recon via key presses instead of the style. To soft reset (without deleting loaded programs), hold the power button for over 5 seconds. To hard reset (delete all settings and program, hold the power button and start button (the upward pointing arrow) for over 5 seconds.

2) Built-in storage instead of SD card for storing setup files and joint reports. The CompactFlash Card is called the Storage Card if viewed under File Explorer.

3) The system restoration file is “Recon vXXX” under the “Pocket PC Setup Files” folder in the CompactFlash Storage Card or built-in storage.

Copying Joint Reports

1) Make sure Microsoft ActiveSync is installed on your PC.
2) Make sure the TDS Recon has sufficient battery charge or use the AC adapter.
3) Connect USB cable between TDS Recon and your PC.
4) Your PC will recognize and configure itself to communicate with the Recon
5) Once the communication is established, a “New Partnership” dialog box appears on your PC screen. Click “Cancel” to skip the Partnership.
6) A “Partnership Not Set Up” dialog box appears asking for confirmation. Click “OK” to connect as “Guest”.
7) The ActiveSync window shows “Guest” on the left-hand side and a green icon with two arrows on the right-hand side indicating communication established.
8) Click on the “Explore” icon on the PC. A Window opens showing files and folders on the Recon.
9) Find the Joint Reports folder under the My Documents folder. You may copy the enter folder to your PC’s “My Document” folder.
10) Similarly, you may navigate to the Storage Card and find the duplicate joint report folder.
11) Check to make sure all the reports are copied to your PC and you may then delete the reports from the Pocket PC internal storage and Storage Card.

TX02543-4-17-06

Maintenance

Usage and Care

DataLogger®
The Datalogger® serves to record heater temperature and carriage pressure; logging data during the fusion process. It communicates wirelessly with the Pocket PC, uploading the data automatically when the fusion is complete. The unit houses an infrared sensor, two lasers, the **Log** push button, a battery pack and solid-state electronics.

Lasers
Two lasers, mounted in the top of the unit are used to indicate the area being sensed by the temperature sensor. To record the heater temperature, point the top of the unit at the coated butt plate. Pushing the **Log** button will turn on the lasers and the IR sensor will transmit its reading to the Pocket PC. Do not look into the laser beams or point them at anyone. Adjust the distance from the heater butt plate to the sensor until the points merge into one (approximately 4 inches). The sensor has an operating range from 250 to 550 deg. The sensor is not calibrated for uncoated heaters. Readings taken on uncoated heaters will not be correct. Take the heater temperature with a pyrometer and type the reading into the Pocket PC manually.

Batteries
The unit is powered by two D-cell batteries. When the lights dim, or communication becomes erratic replace them. Do not replace them during logging. Changing the batteries will not affect data previously collected.

IR Sensor
The infrared sensor is located in the center hole on top of the unit between the lasers. Dirt or water in this hole will make the sensor read incorrectly. Keep it clean with alcohol on a Q-tip.

Transducer cord
The coiled cord, which connects the pressure transducer to the unit, has screw connectors on both ends. If the cord is damaged it is easily replaced by unscrewing both ends and installing a new cord.

Quick Disconnect
This DataLogger® uses an improved quick disconnect on the pressure transducer. It is designed to seal reliably but not trap pressure in the line. It can be connected under pressure if necessary. To use this unit on older fusion machines you will need Fusion Machine Adapter Kit ADL6001. Remove the QD and fittings on the carriage manifold TX1 port and replace them with the elbow and QD in the kit.

Pressure Transducer
The pressure transducer is calibrated at McElroy Manufacturing, Inc. Its calibration should be checked annually to maintain factory quality.

Storage
Take the batteries out of the DataLogger®, Pocket PC and optional printer if storing for long periods of time. Battery storage temperature is 40°F to 104°F (4°C to 40°C). Do not store a fully charged battery at temperatures greater than 104°F (40°C) for long periods of time – the batteries may permanently lose charge capacity.

Maintenance

No Maintenance Inside Case

NOTICE: There are no parts inside the DataLogger™ that can be repaired by the user. Do not try to open the case. Any attempt to open the case can affect the weatherproofing and can damage the unit.

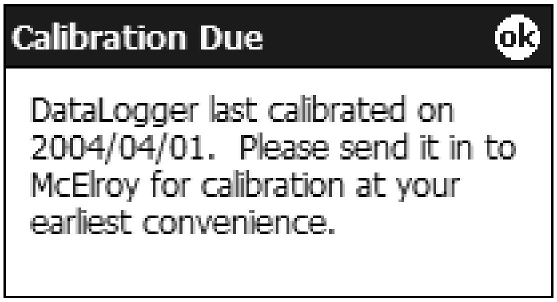
TX02530-6-20-05

dataloggerV3

Calibration

Unit must be sent to McElroy every year for calibration to ensure accuracy.

TX2531-6-20-05



Calibration Due

DataLogger last calibrated on 2004/04/01. Please send it in to McElroy for calibration at your earliest convenience.

PH04319-11-16-06

Specifications

McElroy DataLogger®

Batteries:	2x D-Cell Batteries Alkaline Ni-Cad Rechargeable Ni-mH Rechargeable
Operating Life:	Approx 48hrs Alkaline Batteries will last longer than Rechargeable
Shelf Life:	The Datalogger batteries will very slowly drain if left inside the Datalogger battery holder, and this may lead to leakage of corrosive battery chemicals after months of storage.
Operating Temp:	-4 to 158 degrees Fahrenheit (-20 to 70 degrees Celsius)
Lasers:	2x Peak Wavelength: 670nm Output Power: <1mW (Class II)
Wireless Link:	Bluetooth Version 1.1 Level: 4 dBm Range: ~30m (~100ft) Bluetooth Protocols: RFCOMM, L2CAP, SDP Supported Profiles: General Access Profile - Serial Port Profile
Pressure Probe:	Range: 0 – 2000PSI Accuracy: Calibrated to +/- 5PSI across entire range
Temperature Probe:	Calibrated Range: 400 – 550 Degrees Fahrenheit Accuracy: Calibrated to +/- 5°F across calibrated range Probe will attempt to measure temperatures as low as 50°F and as high as 700°F, but no guarantees are made concerning the accuracy outside of the calibrated range.
Data Sampling Rate:	10 samples per second
Pocket PC Specifications:	Refer to manufacturer's manual.
Software Updates:	Available online at http://www.mcelroy.com/fusion/support/downloads.htm

TX02532-4-17-06

About this manual . . .

McElroy Manufacturing continually strives to give customers the best quality products available. This manual is printed with materials made for durable applications and harsh environments.

This manual is waterproof, tear resistant, grease resistant, abrasion resistant and the bonding quality of the printing ensures a readable, durable product.

The material does not contain any cellulose based materials and does not contribute to the harvesting of our forests, or ozone-depleting constituents. This manual can be safely disposed of in a landfill and will not leach into ground water.

TX001660-8-19-99

McELROY

The leader by design.

P.O. Box 580550 Tulsa, Oklahoma 74158-0550, USA
www.mcelroy.com